ORDER NO. VRD9505M108

Service Manual

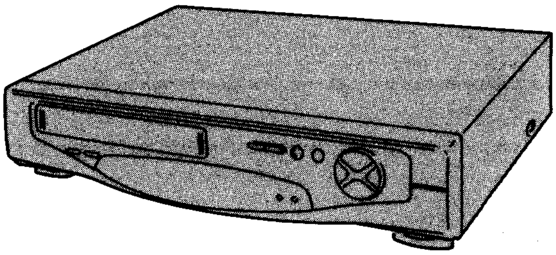
Video Cassette Recorder

Panasonic VHS PAL HQ

NV-SD400 EG/EI B/BI

K-MECHANISM

General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 220~240V AC 50/60Hz	
	CONSUMPTION: 19 watts	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL	
TV TUNER SYSTEM	NV-SD400EG/EI	VHF I: CHN1~CHS10 VHF III: CHE5~CHS41 (PAL/SECAM B) UHF: CH21~CH69 (PAL/SECAM G) 75Ω terminated
	NV-SD400B	UHF: CH21~CH69 (PAL I) 75Ω terminated
	NV-SD400BI	VHF I: CHA~CHC VHF III: CHD~CHJ (PAL I) UHF: CH21~CH69 (PAL I) 75Ω terminated
RF OUT SYSTEM	NV-SD400EG/EI	UHF: CH 36±6 (PAL/SECAM G) 70^{+2}_{-3}dBμ, 75Ω terminated
	NV-SD400B/BI	UHF: CH36±6 (PAL I) 73±3dBμ, 75Ω terminated
VIDEO	HEADS: 4 rotary heads 1 pair for recording and playback (L-R heads) 1 pair for trick play (L′-R′ heads)	
	INPUT: EURO AV Connector (21 pin × 2) 1.0Vp-p, 75Ω unbalanced	
	OUTPUT: EURO AV Connector (21 pin × 2) 1.0Vp-p, 75Ω unbalanced	

ITEM	SPECIFICATION
AUDIO	HEAD: 1 Stationary head (Normal Audio)
	INPUT: EURO AV Connector (21 pin × 2) More than −6dBV (500mV), 10kΩ
	OUTPUT: EURO AV Connector (21 pin × 2) −6dBV (500mV), Less than 1kΩ
TAPE SPEED	SP: 23.39mm/s LP: 11.695mm/s Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time: 2.5min. with 180min. type tape
DIMENSIONS	430(W)×91(H)×310(D) mm
WEIGHT	4.7kg
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. AC Mains Lead 1 pc. Infra-red Remote Controller

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with technical know how for actual servicing and general information of features and controls, enabling you to become familiar with each function.

Section 2 presents to your mechanical and electrical adjustment information as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to the appropriate service manual.

Section 3, 4 contains block diagrams which provides you with information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c. ...

Section 5 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

NOTE

Please place the order of Operating Instructions by refering the language you need, indicated at Descriptions in the Mechanical Replacement Parts List (Page: 5-5).

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SECTION 1
GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

1-1-1. CHANNEL MEMORY IC INITIALIZATION

When replacing the memory IC7704, its IC should be initialized.

Note:1) It should be performed before tuning.
2) Meaning of "INITIALIZATION" is to make dependency in different models and to distinguish between different features.

Method:
1) Connect a jumper wire (K2501) which has been cut as shown below.

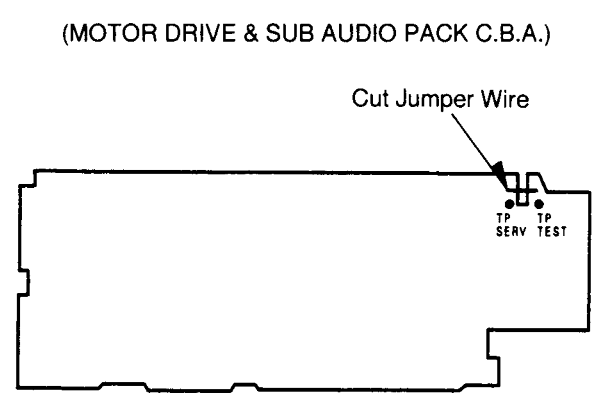


Fig. S1

2) Press the "FF", "REW" and "EJECT" buttons to set the Service Mode. (Test Mode will be appeared on the monitor TV.)
3) Set the Model Code for each model by using 10-key on the Remote Controller Unit as follows.
4) After finishing the initialization, cut the K2501 and cancel the Service Mode.

		NV-SD400EG	NV-SD400EI	NV-SD400B	NV-SD400BI
Code No.	IR	065	065	073	077
	OSD	064	064	072	076

Note:1) Set to IR No. when there is OSD button on the Remote Controller.
2) Set to OSD No. when there is not OSD button on the Remote Controller.

1-1-2. SERVICE POSITION

A. CHECKING OF MAIN C.B.A.

When servicing the MAIN C.B.A., take out the MAIN C.B.A. and mechanism from the frame and turn over.

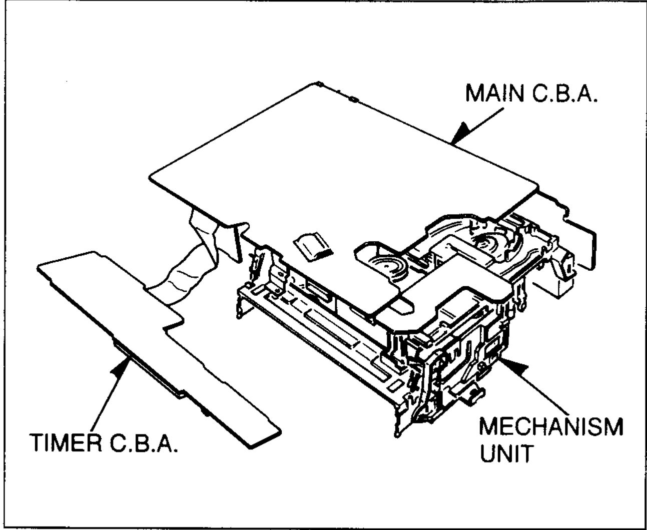


Fig. S2

B. MECHANISM SERVICE POSITION

When servicing the K-Mechanism, take out the mechanism from the MAIN C.B.A. and connect Extention Cable (VFK0889) between the loading-motor connector and P2001 as shown below.
In this position, the following services are possible.

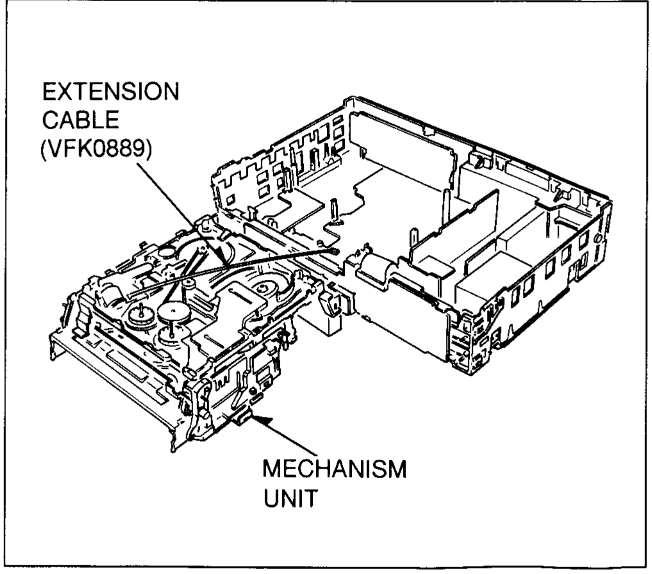


Fig. S3

B-1. CHECKING OF GEAR PHASE ALIGNMENT CONDITION

1) Check gear phase Alignment Condition of Mechanism.

B-2. CHECKING OF LOADING/UNLOADING OPERATION

There are 3 methods for manual operation of loading/unloading operation as follows.

1. HAND OPERATION
   1) Turn the Worm Gear or the Worm Wheel Gear (Remove the Loading Motor Unit) manually.
2. BATTERY OPERATION
   1) Remove the Extention Cable (VFK0889).
   2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./+4.5 V) to the Loading Motor terminals.
3. SERVICE INFORMATION DISPLAY OPERATION
   1) Set the Service Information Display mode. (Press the "FF", "REW" and "EJECT" buttons simultaneously.)
   2) Press the "FF", "REW" and "EJECT" buttons 7 times to set the Service Mode 7. (The end of display on the Display becomes "--".)
   3) In the above Service Information Display mode, the Loading Motor rotates for Loading operation when the "PLAY" button is pressed.
      The Loading Motor rotates for unloading operation when the "STOP" button is pressed.

Remark:
Use the "SERVICE INFORMATION DISPLAY" mode for a final check of mechanism movement.

B-3. CHECKING OF REEL GEARS OPERATION

1) Move the mechanism to "PLAY" position by loading operation. (Refer to B-2)
2) Turn the Capstan Rotor Unit to check movement of reel gears.

C. TDD CYLINDER UNIT REPLACEMENT

The Cylinder Unit can be replaced easily by the following method.

1) Remove the Top Panel.
2) Remove the 3 screws of the Cylinder Unit with a magnetized screw driver through the holes on the Bottom Plate as shown below.

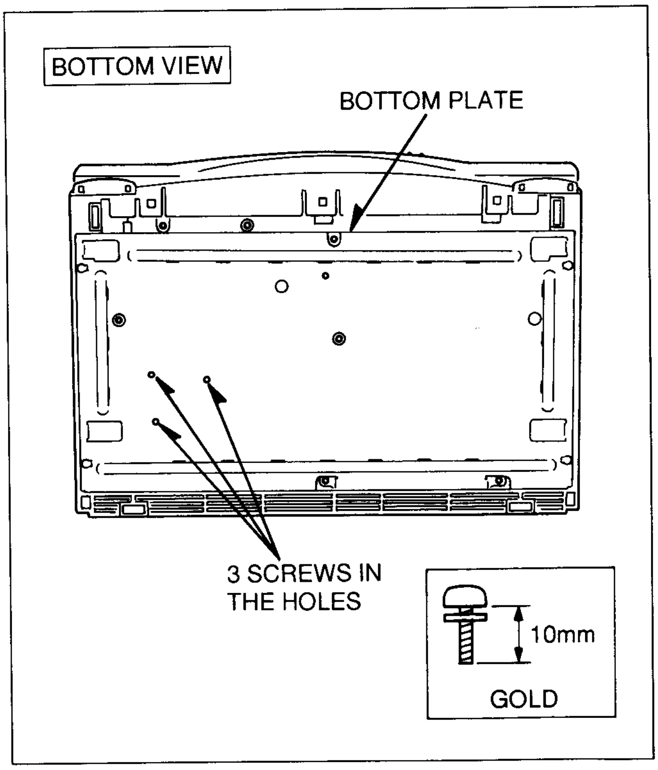


Fig. S4

D. CAPSTAN STATOR UNIT ASSEMBLY

When replacing the Cspstan Stator Unit, the Centre Fixing Tool (VFK0851) must be used to fix the centre of Capstan Stator Unit.

Method:

1) Place the Capstan Stator Unit into position.
2) Loosely tighten the 3 screws.
3) Insert the Centre Fixing Tool (VFK0851) as shown below.
4) Tighten the 3 screws.
5) Remove the Centre Fixing Tool.

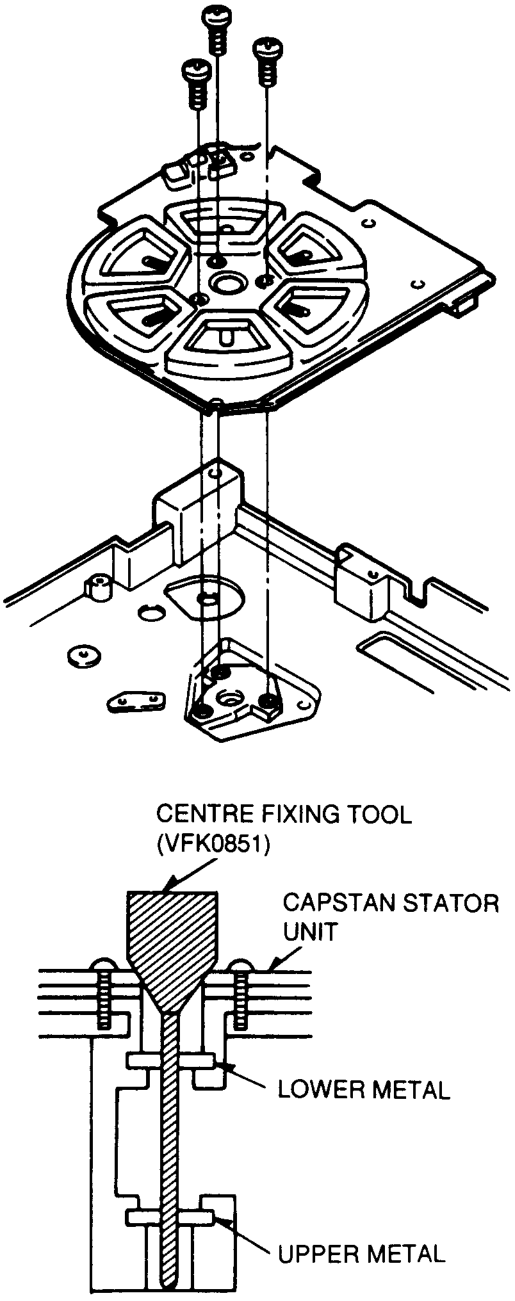

CENTRE FIXING TOOL (VFK0851)
CAPSTAN STATOR UNIT
LOWER METAL
UPPER METAL

Fig. S5

E. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

<NOTE>
If the Eject operation is performed without the cassette carriage installed while repairing or making the mechanical phase alignment, the main cam gear will not engage with the carriage connection gear and will not rotate.
To perform the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

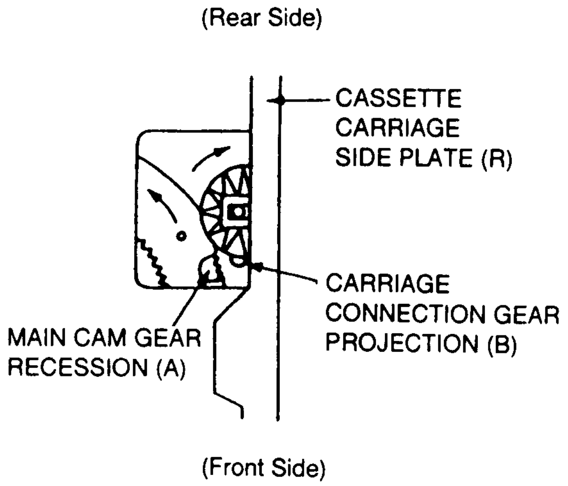

(Rear Side)
CASSETTE CARRIAGE SIDE PLATE (R)
CARRIAGE CONNECTION GEAR PROJECTION (B)
MAIN CAM GEAR RECESSION (A)
(Front Side)

Fig. S6 Top View of Eject Operation

F. TAKE-UP PHOTO SENSOR OPERATION

Note the following matters for Take-up Photo Sensor Operation.

1) While servicing of the K-Mechanism, the unit will not operate properly if a strong light (ex, Fluorescent light, Spot light) falls on the Take-up Photo Sensor.
   In this case, cover the Take-up Photo Sensor to prevent the light from falling on it.
2) While servicing of the K-Mechanism with “Power On” and without cassette tape inserted, the Unit does not operate properly.

1-2. SELF-TEST INDICATION DISPLAY

This VTR has a self-diagnosis and display function. If the VTR detects trouble during installation or during use, one of the following Fault Indication Codes will automatically appear in the VTR display. Fault Indication codes are displayed in the form of a single English letter followed by two numbers, as for example "H01".

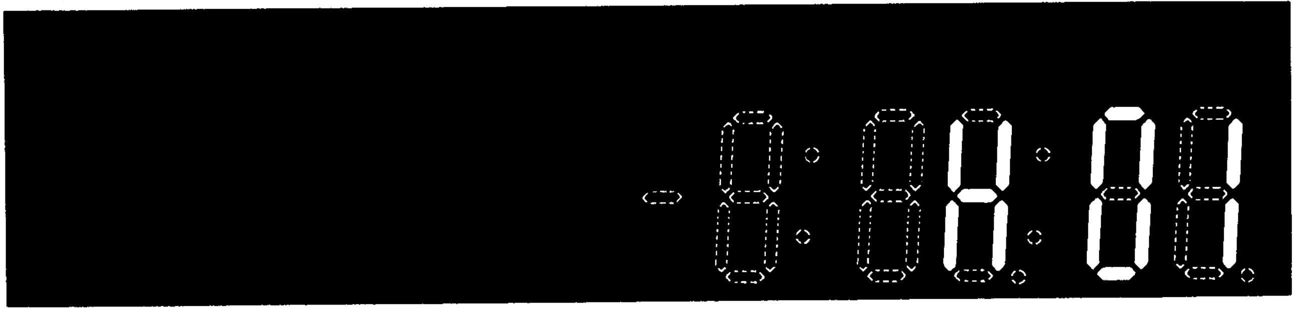
Note:1. The indication "U" is displayed on the FIP while power remains on.

2. Otherwise, the indication "H" or "F" is displayed on the FIP, and the power is automatically turned off. When the power is turned on again, the Fault Indication Code will disappear and the unit will return to normal display mode (either clock or counter).

3. This Fault Indication Code will be stored in the Timer microprocessor even with the AC plug disconnected.
The two-digit number portion of the stored Fault Indication Code can be redisplayed in the FIP's "second" display position (the last 2 digits on the light) by placing the unit is Service Mode Number 2 when turning on Service Information Display as for example "01" or "02" etc.
If a second error occurs, only the most recent error will be displayed and stored.

4. To erase the stored Fault Indication Code data, press the FF, REW and EJECT buttons simultaneously for 5 seconds.

⟨FIP⟩



INDICATION	CAUSE	REMEDY/CHECK
U 10	Dew formation.	Wait until the indication disappears.
H 01	After cylinder lock is detected, the cylinder does not start rotating again even after tape unloading.	Check the cylinder-motor drive circuit.
H 02	Cassette tape is not wound up during tape unloading except Eject mode.	Check the capstan-motor drive circuit.
F 03	Mechanism locks during mode transition except Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment. 3. Check the Mode Switch.
F 04	Mechanism locks during tape unloading.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment.
F 05	Cassette tape is not wound up during tape unloading in Eject mode.	1. Check the capstan-motor drive circuit. 2. Check the Supply/Take-up reel pulse.
F 06	Mechanism locks after tape unloading in Eject mode.	1. Check the loading-motor drive circuit. 2. Check the mechanism phase alignment for Cassette Holder Unit.
F 09	No serial clock transmission between IC6001 and IC7501.	Check the serial clock circuit.

Fig. T1 Self-Test Indication Display

1-1-3. REMOVAL OF THE CASSETTE TAPE

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually. There are 2 methods of removing the cassette.

1. HAND OPERATION

1) Take out the mechanism from MAIN C.B.A.
2) Turn the Worm Gear manually, moving the Loading Post to the unloaded position.
3) Turn the Capstan Rotor Unit clockwise to take up the tape.
4) Turn the Worm Gear again to eject the cassette.

2. BATTERY OPERATION

1) Take out the mechanism from Main C.B.A.
2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./ +4.5V) to the Loading Motor terminals as shown below.
3) After moving the Loading Post to the unloaded position, disconnect the battery to stop the motor.
4) Turn the Capstan Rotor Unit to clockwise to take up the tape.
5) Reconnect the battery to eject the cassette.

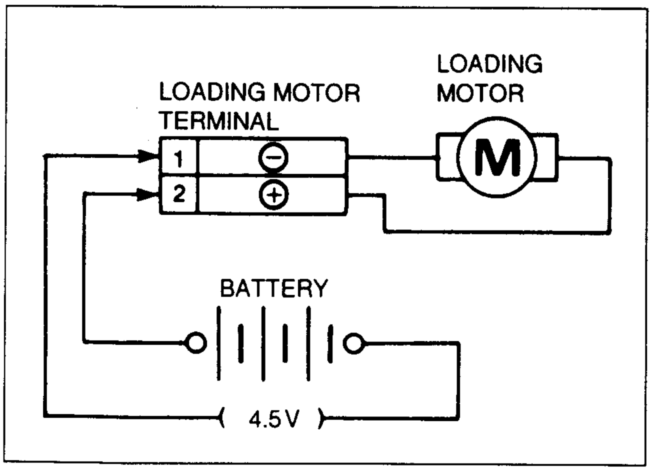


Fig. S7

If the cassette tape can not be removed by the above 2 methods, remove it by the following method.

1) Remove the Top Panel.
2) Remove the Front Panel Unit.
3) Lift up the Pinch Arm after removing spring.
4) Push the P5 Arm and remove the cassette tape from tape transportation (P1, P2, P3 and P5 Posts).
5) Turn the Capstan Rotor Unit to take up the tape.
6) Remove 1 screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
7) Take out the cassette tape from the Cassette Compartment.

1-1-4. FLAT CARD CABLE INSTLLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

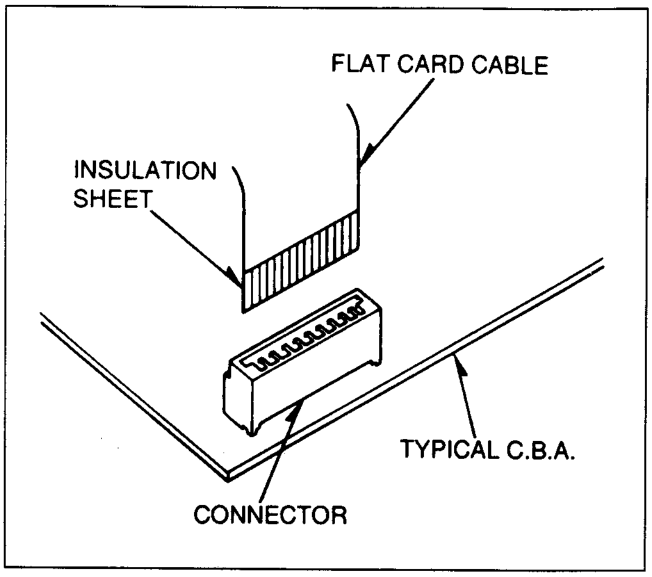


Fig. S8

1-3-3. Use of Service Modes

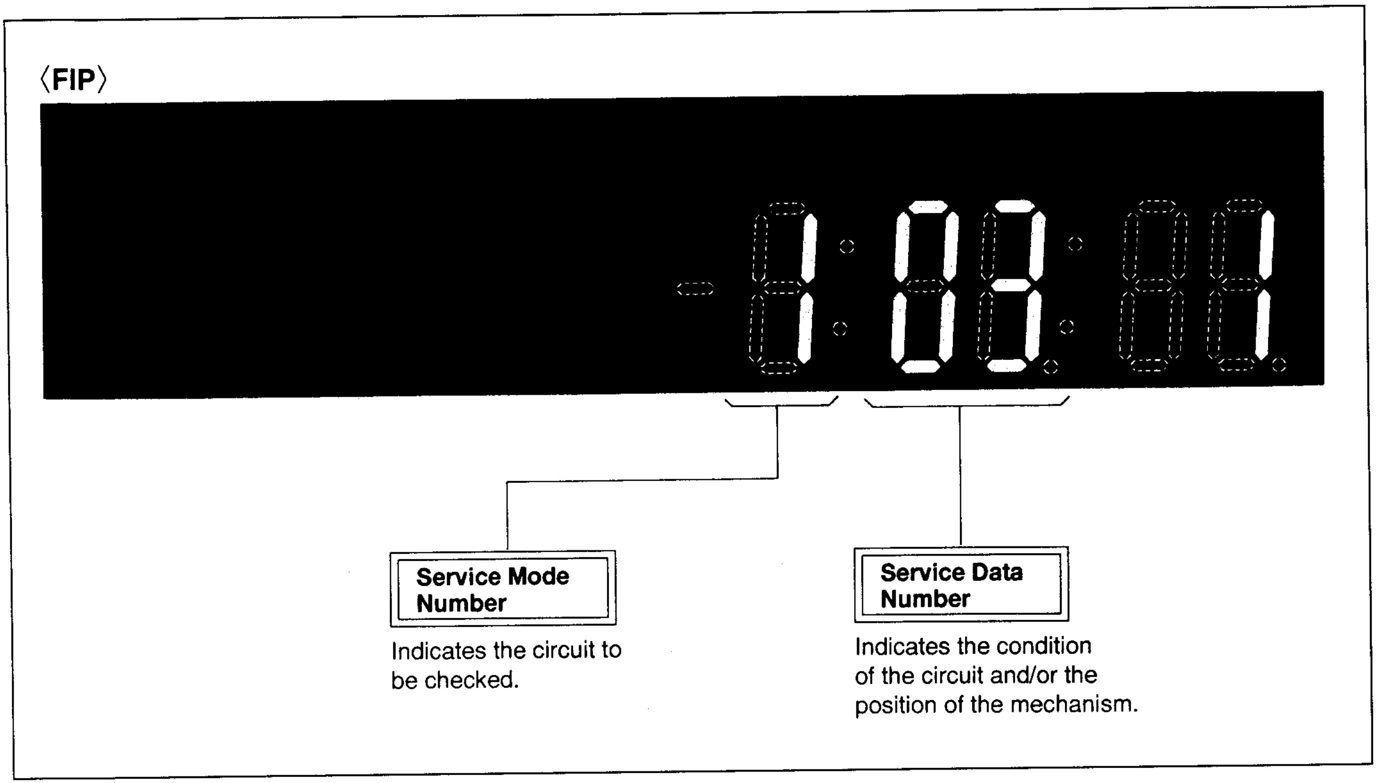

〈FIP〉
1:03:01
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicates the condition of the circuit and/or the position of the mechanism.

Fig. D2 Service Mode Number and Service Data Number on S.I.D.

(1) Turn on Service Information Display.

(2) To change Service Modes press the “FF”, “REW” and “EJECT” buttons simultaneously.

(3) Mode 1 : Checks that the Sensor LED, Supply & Take-up Sensor circuits check the circuits by blocking the light from the Sensor LED to either or both Supply & Take-up Sensors.
When the light is blocked to both sensors, “00” should be indicated on the service data number.
When the light is blocked to the supply sensor, “01” should be indicated.

(4) Mode 2 : Checks the mode switch circuit while indicating mechanism position.
Service Data Numbers indicate the position of the mode switch and there by the mechanism position.

(5) Mode 3 : Checks that mode switch circuit operations have been completed.
Service Data Number should indicate “00” after each mechanism operation is completed.

(6) Mode 4 : Checks the operation circuit.
Indicates if IC6001 receives the operating commands from the mode buttons and/or remote controller.

(7) Mode 5 : Checks the capstan motor circuit.
Indicates if the IC6001 has received the command to rotate the capstan motor.

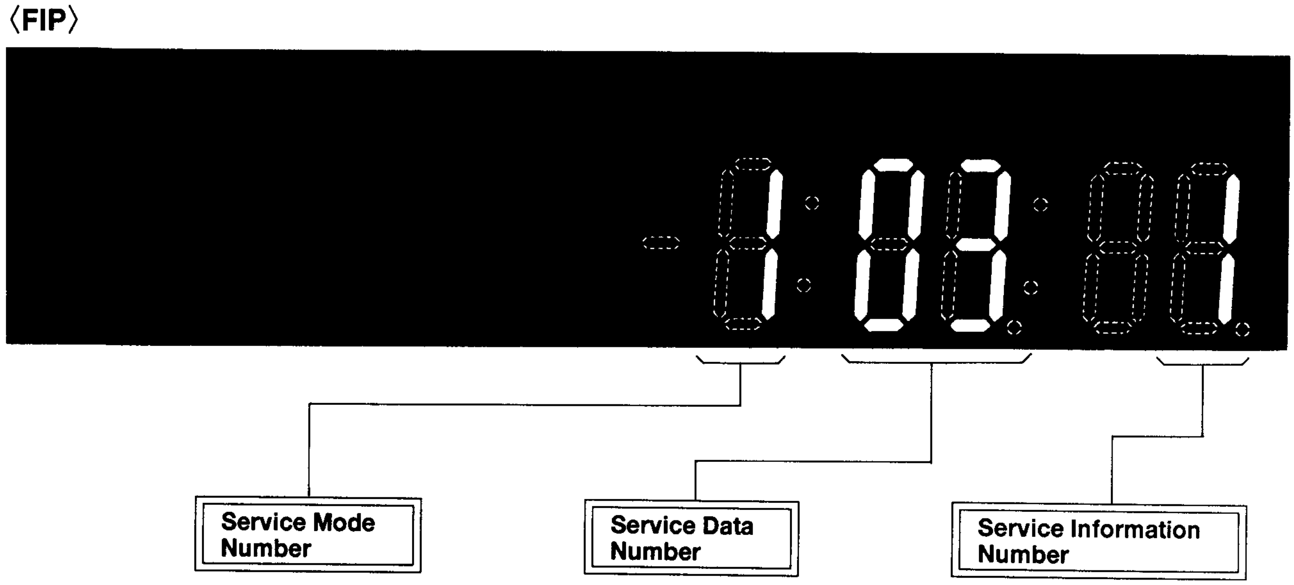
(8) Mode 6 : Checks the cylinder motor circuit.
IC6001 has received the command to rotate the cylinder motor.

(9) Mode 7 : Checks the Loading/Unloading Operation.
The Loading Motor rotates for loading operation when the “PLAY” button is pressed.
The Loading Motor rotates for unloading operation when the “STOP” button is pressed. This mode can be displayed indefinitely until the OPERATE button is pressed.

(10) Mode 8 : Not used.

<NOTE>
Refer to Fig. D5 for details of Service Data Numbers.

1-3. SERVICE INFORMATION DISPLAY



Indicates the circuit to be checked.

Indicates the condition of the circuit and/or the position of the mechanism.

Indicated which circuit senses a malfunction.

Fig. D1 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

1-3-2. Turning on Service Information Display

There are two ways to turn on the Service Information Display.

(1) Press the "FF", "REW" and "EJECT" buttons simultaneously.
(2) Connecting a Jumper wire between TPSERV and TPTEST will display the service information indefinitely.

In the Service Information Display, there are four digits divided into 3 functions.
The first digit indicates which of the 8 service modes that the unit is currently in.

MODE 1 : Checks tape protection circuit
MODE 2 : Checks tape transport mechanism
MODE 3 : Checks mode switching operation
MODE 4 : Checks control buttons
MODE 5 : Checks capstan motor
MODE 6 : Checks cylinder motor
MODE 7 : Checks loading/unloading operation
MODE 8 : Not used.
(The MODE 8 is displayed only when connecting a jumper wire between TPSERV and TPTEST.)

The second and third digits are service data which indicate the condition of the circuit or mechanism being checked.

The forth digit is the service Information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is supplied. (except service mode number 2, 7 and 8)

Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
1	———	00	No light detected at either sensor.	Tape not required.
		01	Tape Beginning. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
2	———	00	EJECT	Tape Required. ∗1 : STOP3; The Pinch Roller is on the capstan motor shaft. ∗2 : STOP; The Pinch Roller is off the capstan motor shaft. Refer to Fig. D7 to Check mechanism Position and timing.
		01	Cassette-down	
		02	REV, REV SLOW	
		03	Loading/Unloading	
		04	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3 *1	
		05	STOP *2	
		06	FF/REW	
		07	Intermediate position	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required.
4	Display only when the operating button is pressed.	Refer to Fig. D6		Tape not required.
5	Left digit only, disregard Right digit display.	8 1 Left Digit Right Digit	8, 9, u, A, −, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard left digit display.	8 7 Left Digit Right Digit	1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward Slow" commands received by IC6001.	
	Right digit only, disregard left digit display.	8 Left Digit Right Digit	8, 9, u, A, −, n, L, and no display indicate that the Capstan motor "Reverse, Rew, Reverse Slow" commands received by IC6001.	
6	Left digit only, disregard Right digit display.	1 0 Left Digit Right Digit	1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.

Fig. D5 Service Data Display and Indication

1-3-4. Service Information Number

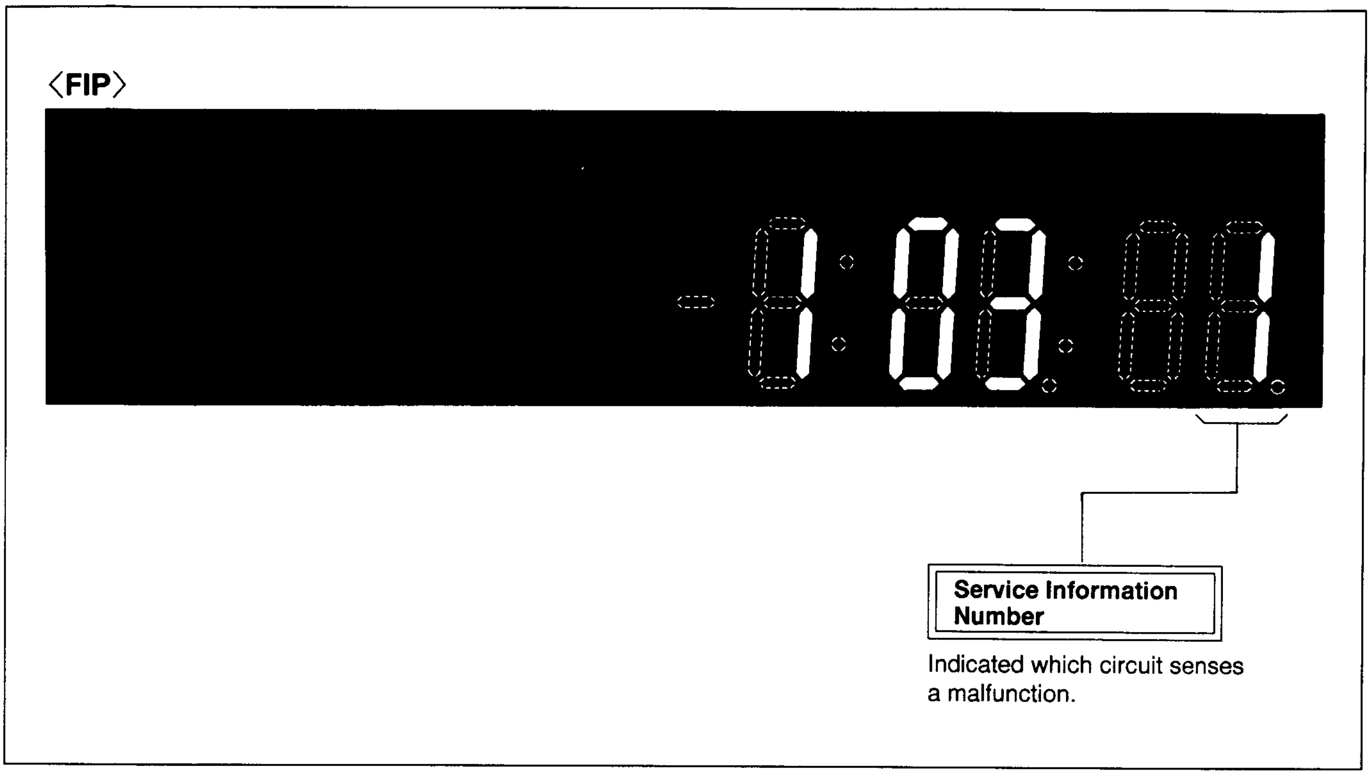

〈FIP〉
Service Information Number
Indicated which circuit senses a malfunction.

Fig. D3 Service Information Number on S.I.D.

Refer to Fig. D4 for details of Service Information Number.

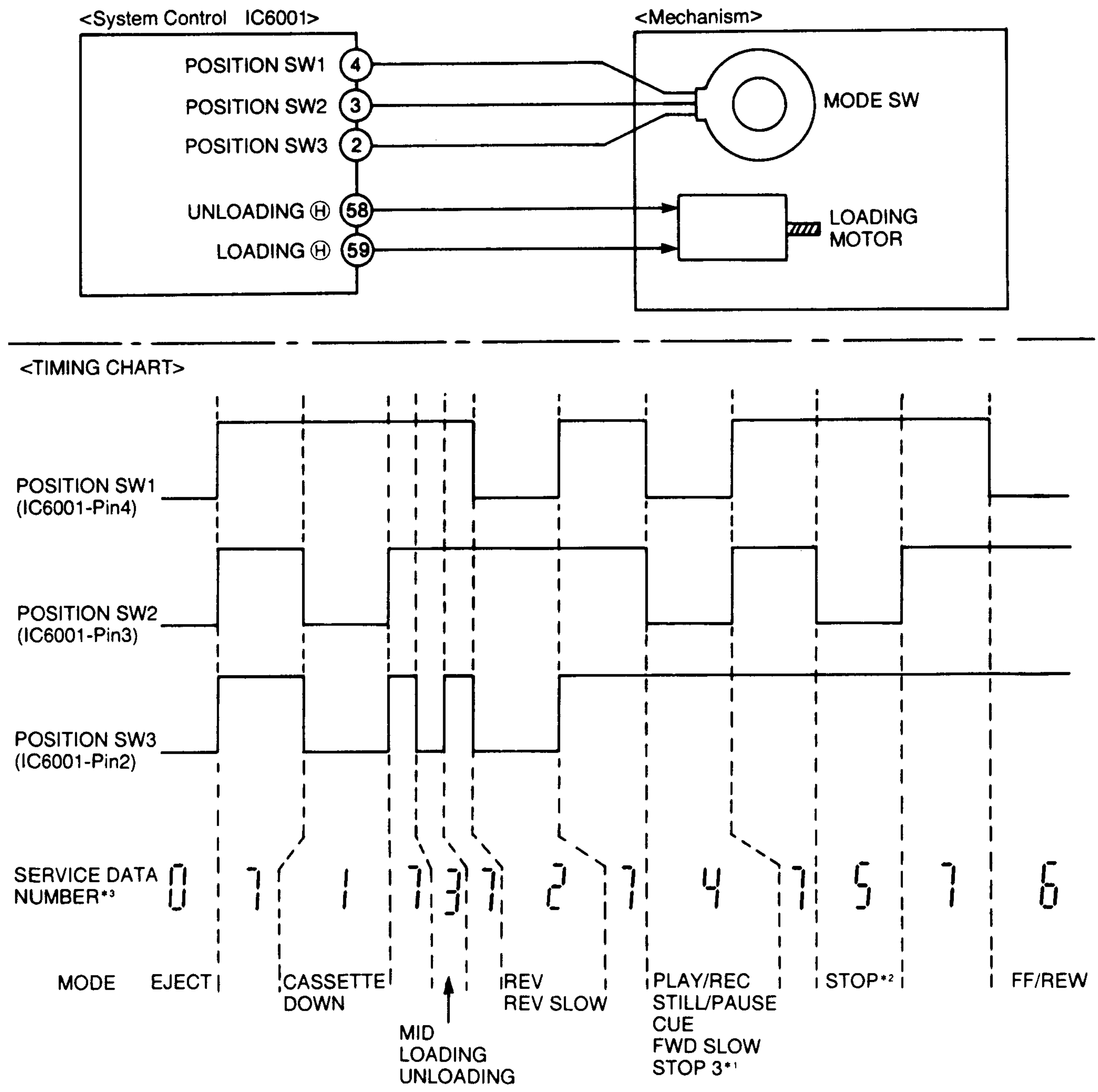
Note:
The Service Information Number display is independent of the service mode display.
The Service Information Number will be stored as long as AC power is supplied.
If a second error occurs, only the most recent error will be displayed.
(except service mode number 2, 7 and 8)

Service Information Number	Malfunction
0	Normal (No problem)
1	Cylinder stop
2	Tape reel stop
3	Stop at position other than 4 or 6
4	Stop during unloading
5	Faulty capstan rotation
6	Stop during Cassette-In/Eject operation

Fig. D4 Detail Service Information Numbers

1-3-5. Timing Chart from Mode SW to System control IC6001

System control IC6001 senses the mechanism position through the Mode SW.
Fig. D7 shows the timing for Service Mode Number 2.



<System Control IC6001>
<Mechanism>
POSITION SW1 4
POSITION SW2 3
POSITION SW3 2
UNLOADING Ⓗ 58
LOADING Ⓗ 59
MODE SW
LOADING MOTOR
<TIMING CHART>
POSITION SW1 (IC6001-Pin4)
POSITION SW2 (IC6001-Pin3)
POSITION SW3 (IC6001-Pin2)
SERVICE DATA NUMBER*3
0 7 1 7 3 7 2 7 4 7 5 7 6
MODE
EJECT
CASSETTE DOWN
MID LOADING UNLOADING
REV REV SLOW
PLAY/REC STILL/PAUSE CUE FWD SLOW STOP 3*1
STOP*2
FF/REW

∗1 : Stop 3;The Pinch Roller is on the capstan motor shaft.

∗2 : Stop;The Pinch Roller is off the capstan motor shaft.

∗3 : Service Data Number;This is for Service Mode Number 2.

Fig. D7 Timing Chart of Mode SW

SERVICE DATA NUMBERS	MODE BUTTONS	SERVICE DATA NUMBERS	MODE BUTTONS
3n	OPERATE	06	PAUSE/STILL
01	EJECT	54	RESET
-0	INPUT SELECT	5	ZERO STOP
—	SP/LP	49,4U	INDEX
34,35	∧∨, + −	A1,A2	TRACKING (+, −)/V-LOCK
—	CANCEL	0	SLOW
—	MENU	57	OSD
A4	TIMER REC	00	STOP
08	REC	03,02	FF, REW
—	EXIT	55	DISPLAY
—	SHOW VIEW/G-CODE/VIDEO PLUS	0U	PLAY

Fig. D6 Service Data Display for Service mode 4

1-3-6. Input/Output Chart for IC6001

<table>
<tr><th>Pin Number</th><th>Input/Output</th><th>Port Name</th><th>Function</th></tr>
<tr><td>1</td><td>I</td><td>SAFETY TAB</td><td>When inserting the cassette tape with safety tab, this port is low. When there is no safety tab, this port is high to prevent recording.</td></tr>
<tr><td>2</td><td>I</td><td>POSITION SW 3</td><td rowspan="3"><table>
<tr><th>P. SW 3</th><th>P. SW 2</th><th>P. SW 1</th><th>Position (Mode) Name</th></tr>
<tr><td>O</td><td>O</td><td>O</td><td>EJECT</td></tr>
<tr><td>O</td><td>O</td><td>I</td><td>CASSETTE DOWN</td></tr>
<tr><td>O</td><td>I</td><td>O</td><td>REV, REV SLOW</td></tr>
<tr><td>O</td><td>I</td><td>I</td><td>MID (LOADING/UNLOADING)</td></tr>
<tr><td>I</td><td>O</td><td>O</td><td>PLAY/REC, STILL/PAUSE, CUE, FWD SLOW STOP3 *1</td></tr>
<tr><td>I</td><td>O</td><td>I</td><td>STOP</td></tr>
<tr><td>I</td><td>I</td><td>O</td><td>FF/REW</td></tr>
<tr><td>I</td><td>I</td><td>I</td><td>INTERMEDIATE</td></tr>
</table>
(*1) The Pinch Roller is on the capstan motor shaft.</td></tr>
<tr><td>3</td><td>I</td><td>POSITION SW 2</td></tr>
<tr><td>4</td><td>I</td><td>POSITION SW 1</td></tr>
<tr><td>5</td><td>I</td><td>SUPPLY REEL PULSE</td><td>Supply Reel Pulse Input
(For detecting tape remaining)</td></tr>
<tr><td>6</td><td>I</td><td>NORMAL/ SERVICE/TEST</td><td>Service Mode Setting
Normal Mode : High
Service Mode : Middle
Test Mode : Low</td></tr>
<tr><td>7</td><td>I</td><td>DEW</td><td>Not used (Low setting)</td></tr>
<tr><td>8</td><td>I</td><td>TEST</td><td>Not used (Low setting)</td></tr>
<tr><td>9</td><td>I</td><td>ENVELOPE SELECT</td><td>The playback envelope video signal level is detected at this input to select the video head in the special playback modes.</td></tr>
<tr><td>10</td><td>O</td><td>ROTARY SW</td><td>This signal is supplied to the chrominance circuit to perform the phase rotation.</td></tr>
<tr><td>12</td><td>O</td><td>HEAD AMP SWITCH</td><td>This signal is supplied to the head amp circuit to switch the video head, SP or LP.</td></tr>
<tr><td>14</td><td>O</td><td>ARTIFICIAL V/H/N</td><td>Artificial Vertical Sync Signal is supplied to video circuit to stabilize the picture in the special playback modes.</td></tr>
<tr><td>17</td><td>I</td><td>TAKE-UP PHOTO</td><td>Take-up Side Photo Sensor Input
(For detecting tape beginning)</td></tr>
<tr><td>18</td><td>I</td><td>SUPPLY PHOTO</td><td>Supply Side Photo Sensor Input (For detecting tape end.)</td></tr>
<tr><td>19</td><td>I</td><td>TAKE-UP REEL</td><td>Take-up Reel Pulse Input
(For detecting tape remaining and reel (Cap.) lock.</td></tr>
<tr><td>20</td><td>O</td><td>SP/LP</td><td>Not used</td></tr>
<tr><td>45</td><td>O</td><td>AUDIO H. SW</td><td>Not used</td></tr>
<tr><td>46</td><td>O</td><td>SERIAL CLOCK SELECT</td><td>Refer to Fig. MP4 and MP5.</td></tr>
<tr><td>47</td><td>O</td><td>SYSTEM SEL</td><td>Refer to Fig. MP5.</td></tr>
<tr><td>48</td><td>O</td><td>L CH/R CH</td><td>Not used</td></tr>
<tr><td>49</td><td>O</td><td>BIL/STEREO</td><td>Not used</td></tr>
<tr><td>50</td><td>O</td><td>MESECAM (H)</td><td>Refer to Fig. MP6.</td></tr>
<tr><td>51</td><td>O</td><td>NTSC/PAL</td><td>Refer to Fig. MP4.</td></tr>
</table>

Fig. MP1

Pin Number	Input/Output	Port Name	Function
52	I	TV/VTR	Refer to Fig. MP4.
53	O	MONO 1/2	Not used
54	O	SENSOR LED ON (L)	When turning on the Sensor LED, this port is low. 1) STOP Mode: No lit. 2) FF, REW, CUE, REV Modes: DC is lit. 3) EJECT Mode: Pulse blinking. (Cycle: 320 [msec])
55	O	VOLTAGE CHANGE (H)	When increasing the drive torque of loading motor to perform the FF/REW mode, this port is low.
56	O	CANAL	Refer to Fig. MP6.
57	O	NTSC M (H)	Refer to Fig. MP6.
58	O	UNLOADING (H)	When unloading, this port is high.
59	O	LOADING (H)	When loading, this port is high.
60	O	HEAD SW	This signal is supplied to the head amp circuit to switch the video head, R or L.
61	O	CURRENT LIMIT	Capstan torque limitter output
62	O	CAP R/S/F	Capstan Rotation Direction Output Reverse : High Stop : Middle Foward : Low
63	O	SERIAL CLOCK	Serial Clock Output
64	I/O	SERIAL DATA	Serial Data In/Out
65	O	SP (H)	Tape Speed Output SP : High LP : Low
66	O	DELAYED REC (H)	When the video goes to the recording mode after a delay from the video recording command, this port is high.
67	O	DELAYED AUDIO REC (H)	When the audio goes to the recording mode after a delay from the audio recording command, this port is high.
68	O	PAL I (H)	When selecting the PAL-I system during tuner preset.
69	O	REC (H)	When the video goes to the recording mode, this port is high.
70	O	NTSC (L)	Not used
71	O	AUDIO MUTE (H)	When the audio goes to the mute mode, this is high.
72	O	CAPSTAN REVERSE (H)	Not used
73	O	VTR (L)	VTR/TV switch output
74	O	A. DUB (H)	Not used
75	O	CURRENT EMPHASIS (H)	When the servo goes to the edit mode, this is high.
76	O	FF/REW (L)	When the servo goes to the FF/REW mode, this is low.
77	O	FM MUTE (H)	Not used

Fig. MP2

Pin Number	Input/Output	Port Name	Function
78	O	VIDEO EE (L)	When the video goes to the EE mode, this is low.
79	O	TRICK (L)	When the video goes to the special playback (CUE, REV, SLOW, STILL) mode, this is low.
80	O	POWER OFF (H)	Power ON/OFF Control is low when the power switch is turned on.
82	I	OSC 1	Oscillator input
83	O	OSC 2	Oscillator output
84	I	RESET (L)	When reseting the IC6001, this port is low.

Fig. MP3

		PIN 46 OUTPUT (SCAN OUT)	
		L	H
PIN 51 INPUT (SYSTEM/ DECK TYPE)	L	PAL SYSTEM	TV/VTR COMBINATION TYPE
	H	NTSC SYSTEM	TABLE TYPE
PIN 52 INPUT (TV/VTR)	L	COMPULSION TV	
	H	AUTO	

Fig. MP4

	PIN 46 OUTPUT	MODE
	L H	
PIN 47 (SYSTEM SEL)	L L	MODE 1
	L H	MODE 2
	H L	MODE 3
	H H	MODE 4

Fig. MP5

	MODE 1, 4	MODE 2	MODE 3
PIN 50 (SYSTEM 1)	MESECAM Ⓗ OUT	MESECAM Ⓗ OUT	NTSC Ⓛ OUT
PIN 57 (SYSTEM 2)	NTSC-M Ⓗ OUT	SECAM Ⓗ OUT	—
PIN 56 (SYSTEM 3)	DBS Ⓛ OUT	DBS Ⓛ OUT	—
PIN 68 (SYSTEM 4)	PAL-I Ⓗ OUT	SECAM Ⓛ OUT	—

Fig. MP6

1-3-7. CVC (CRISTAL VIEW CONTROL) FUNCTION

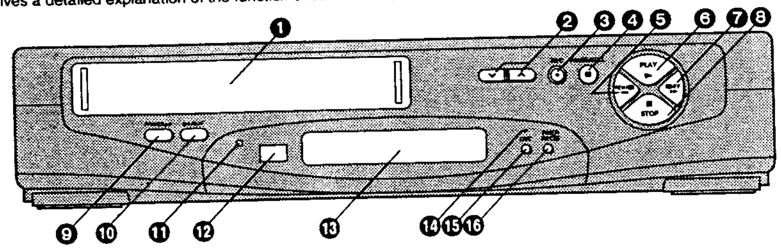
The playback are adjusted to achieve optimum picture quality from tapes with varying charactristics.

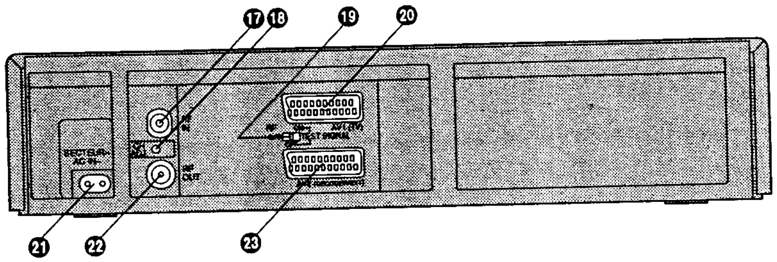
(1) Detail explanation
<Playback mode>
The picture quality is varying from the different tapes as follows:

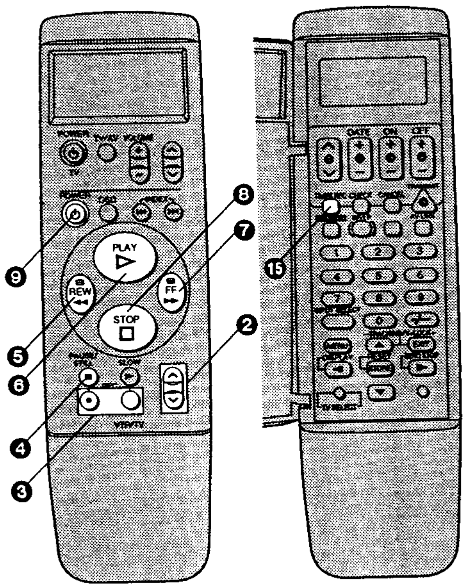
1) If the output level is low, from worn or rental cassette tapes, a soft picture is obtained by the RF equlizer and picture control on the Lumi./Chro. Pack C.B.A.
2) If the output level is medium, from normal tapes, a sharp picture is obtained from the emphasis and picture control on the Lumi./Chro. Pack C.B.A.
3) If the output level is high, from HG/S tapes, a sharp and detailed picture is obtained from the RF equlizer, emphasis picture control and noise canceller on the Lumi./Chro. Pack C.B.A.

Controls and Connection Sockets

This gives a detailed explanation of the function of each button, switch and connection socket.







① **Cassette Compartment**
Insert a video cassette here.

② **∨ ∧**
To select the required programme position (TV station).

③ **REC**
To start a recording.
- Press both buttons simultaneously for the remote controller.

④ **PAUSE/STILL**
During playback: Still picture.
During recording: To interrupt recording.

⑤ **REW (REWIND)**
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture.
"◁◁" is lit.

⑥ **PLAY**
To start playback. "▷" is lit.
For the repeat playback function.

⑦ **FF (FAST FORWARD)**
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture.
"▷▷" is lit.

⑧ **STOP**
To stop any playback or recording.

⑨ **POWER ⏻/I**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still connected to the mains.

⑩ **EJECT**
To eject a video cassette.

⑪ **Standby indicator**
This indicator is lit when the VTR is turned off or the VTR is timer recording standby mode.

⑫ **Infra-red Remote Control Receiver Window**

⑬ **Display**

⑭ **CVC Indicator**
When **CVC** is set to on, this indicator is lit.

⑮ **CVC (Crystal View Control)**
ON: Using the CVC function, playback is performed in the state which achieves optimum picture quality in light of characteristics of a tape.
The CVC indicator is lit.
This control should normally be left in the ON position.
OFF: Turn off the CVC function.
The CVC indicator is not lit.
With certain tapes, the OFF position may result in a better picture.

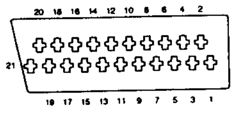
⑯ **TIMER REC**
To turn the timer recording function on and off.
⊡ is lit or not lit.
Once operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

⑰ **RF IN**
To connect to the external aerial.

⑱ **CH ADJ.**
To adjust the RF transmitting channel 30–42.

⑲ **RF OFF/TEST SIGNAL**
RF OFF: Set to this position when the VTR is connected to the TV via the 21-pin scart cable.
TEST SIGNAL OFF:
Set to this position when the VTR is connected to the TV via the RF coaxial cable only.
TEST SIGNAL ON:
Set to this position when tuning the TV into the VTR.
The test signal is transmitted on channel 36 initially.

⑳ **AV1 (TV)**
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV



1	AUDIO OUTPUT
2	AUDIO INPUT
3	AUDIO OUTPUT
4	AUDIO GROUND
5	BLUE GROUND
6	AUDIO INPUT
7	BLUE
8	SWITCHING VOLTAGE
9	GREEN GROUND
10	No connection
11	GREEN
12	No connection
13	RED GROUND
14	BLANKING GROUND
15	RED
16	BLANKING
17	VIDEO OUTPUT GROUND
18	VIDEO INPUT GROUND
19	VIDEO OUTPUT
20	VIDEO INPUT
21	GROUND

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder

㉑ **AC IN~**
To connect to the main power supply.

㉒ **RF OUT**
To connect to the aerial terminal on a TV set.

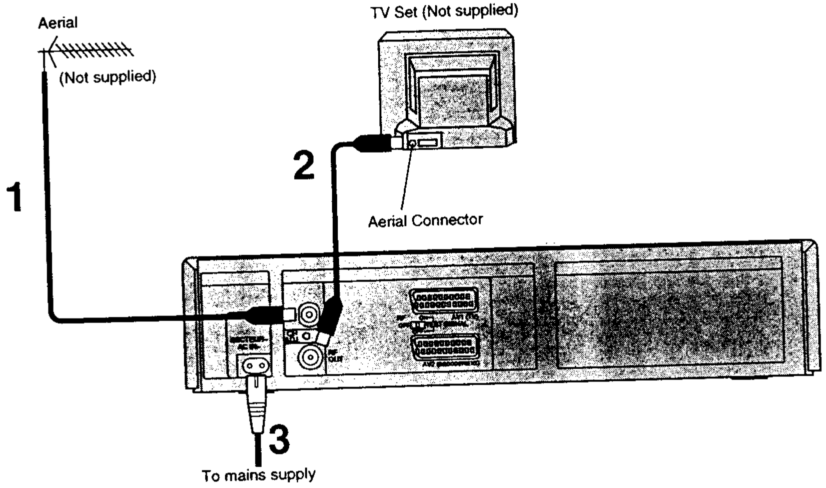
㉓ **AV2 (DECODER/EXT)**
To connect to a decoder or another VTR.
- Only used as the input socket.

Connections

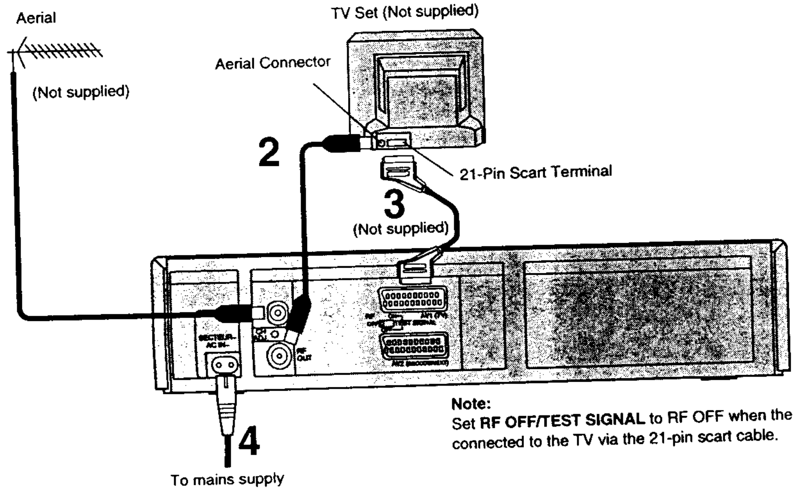
This tells you how to connect with an aerial, TV, etc.

Basic Connections

The following connections are required to record and play back the VTR through TV set:

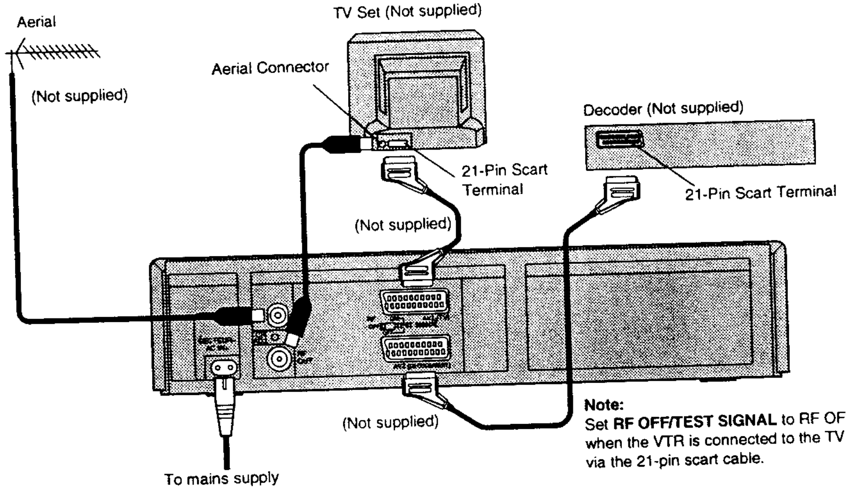

Aerial
(Not supplied)
TV Set (Not supplied)
1
2
Aerial Connector
3
To mains supply

Connection to a TV Set with 21-Pin Scart Terminal


Aerial
(Not supplied)
TV Set (Not supplied)
Aerial Connector
1
2
21-Pin Scart Terminal
3
(Not supplied)
4
To mains supply

Note:
Set **RF OFF/TEST SIGNAL** to RF OFF when the VTR is connected to the TV via the 21-pin scart cable.

Connection to a Decoder


Aerial
(Not supplied)
TV Set (Not supplied)
Aerial Connector
Decoder (Not supplied)
21-Pin Scart Terminal
(Not supplied)
21-Pin Scart Terminal
(Not supplied)
To mains supply

Note:
Set **RF OFF/TEST SIGNAL** to RF OFF when the VTR is connected to the TV via the 21-pin scart cable.

Note:
If the TV set is provided with an RGB-compatible connector, connect the 21-pin AV cable from the VTR to this connector. Use full-pin 21-pin AV cables for connecting the TV set and VTR and for connecting the VTR and decoder.

AV LINK

With this button the connected colour TV set can be switched from TV mode to VTR mode (vice versa) when it is connected by means of 21-pin scart cable.

This makes a variety of functions possible, such as simultaneous recording and viewing when a Pay TV decoder or a satellite receiver has been connected.

VTR mode (VTR indicator lights):
To enjoy sound and pictures from the VTR.

- When **MENU** is pressed and the OSD (On Screen Display) screen is displayed, the unit also automatically switches to VTR mode.
  However, if the unit is originally in TV mode, the VTR indicator is not displayed.
- The unit also automatically switches to VTR mode when playback is started. However, the unit cannot be returned to TV mode during playback.

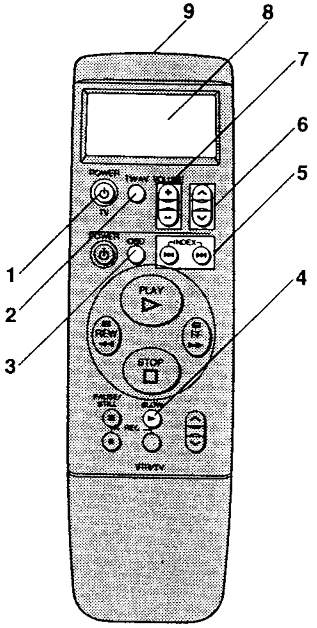
TV mode (VTR indicator goes off):
To watch another programme on the TV while recording on the VTR.

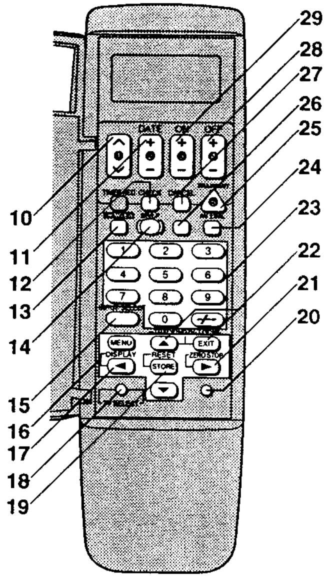
- Select the programme to be watched using the TV set's tuner.
- The sound and pictures of a different channel are received by the VTR.

VTR		**TV set**
Power On	VTR mode	AV input selected
	TV mode	Input from TV set's tuner*
Power Off	—	Input from TV set's tuner

*When the VTR is set to the TV mode and the Pay TV channel is selected, the signals will still be scrambled even when Pay TV is selected by the TV set's tuner. At a time like this, either set the VTR to the VTR mode or switch the TV set's input signals to AV input.

Infra-red Remote Controller





1 **POWER (TV)**
To switch the TV from on to standby mode or vice versa. In standby mode, the TV is still connected to the mains.
- •With some TV models, it may only be possible to switch the TV to standby mode using this button. In this case, use **TV/AV** or ∨ ∧ **(TV)** to switch the TV on.

2 **TV/AV**
To select the TV input.

3 **OSD**
For the On Screen Display Function.

4 **SLOW**
For the slow motion playback function. "▯▷" is lit.

5 **INDEX**
For the index search function.

6 **∨ ∧ (TV)**
To select the required programme position (TV station) of the TV.

7 **VOLUME**
To adjust the volume of the TV.

8 **Display**

9 **Infra-red Transmitter**
The programming data are transmitted from here to the VTR.

10 **∨ ∧**
To programme a timer recording.

11 **DATE**
To programme a timer recording.

12 **CHECK**
To check timer programmes.

13 **SHOWVIEW**
For the ShowView programming.

14 **SP/LP**
To select the tape speed desired for recording.
SP gives the best picture quality.
LP gives the longest recording time.

15 **INPUT SELECT**
To select the A1 or A2 external recording source.

16 **OSD Operation Buttons**
MENU: To make On Screen Display **Main Menu** appear on the TV screen.
▲ ▼ ◀ ▶/STORE:
To make selections from On Screen Display.
EXIT: To make On Screen Display disappear on the TV screen.

17 **DISPLAY**
To change the indication on the VTR Display or On Screen Display.

┌→Clock→Counter→Remaining Tape Time─┐
└───────────────────────────┘

18 **TV SELECT**
To set the remote controller for operation of the TV.

19 **RESET**
To reset the tape counter (elapsed time) to "0:00.00".
- •The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

20 No function.

21 **ZERO STOP**
For the zero stop function.

22 **TRACKING/V-LOCK**
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons to minimize any vertical jitter during still-picture playback.

23 **Number Buttons**
- •To select the programme positions (1–99).

9: (9)

19: (-/--)→(1)→(9)

- •To programme a ShowView number.

24 **AV LINK**
To select the VTR mode or TV mode for AV LINK.

25 **TRANSMIT**
To transmit the data that has been set on the remote controller to the VTR.

26 No function.

27 **CANCEL**
To cancel the settings made for a timer recording.

28 **OFF**
To programme a timer recording.

29 **ON**
To programme a timer recording.

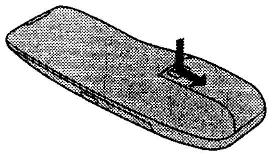
Power Source for the Remote Controller

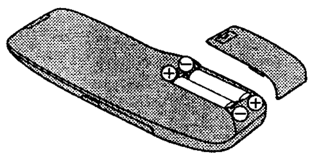
The remote controller is powered by 2 "AA", "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

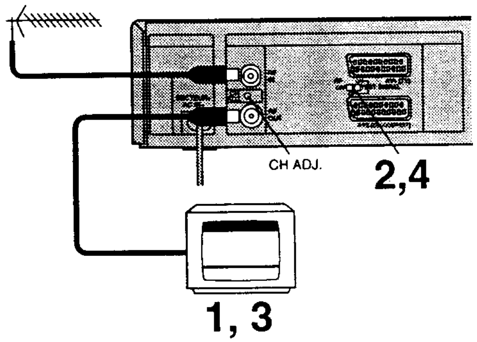
- •Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- •Do not apply heat to the batteries, or an internal short-circuit may occur.
- •If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- •Remove spent batteries immediately and dispose of them.
- •Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

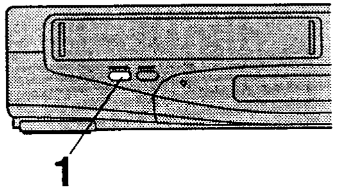
Installing the Batteries





Tuning the TV to your VTR





The VTR supplies a signal to the TV set via the RF coaxial cable on channel 36.
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

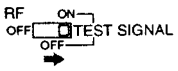
If you have connected the VTR to the TV through the 21-pin scart terminal, then you do not need to follow the procedure mentioned below.

Operations

1

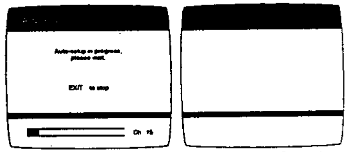
Turn on the TV and VTR.

2



To generate a test pattern, set **RF OFF/ TEST SIGNAL** to TEST SIGNAL ON.

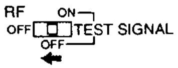
3 **On Screen Display**



(During Auto Setup) (After Auto Setup)

Set the TV to an unused position which you wish to use for your video playback.

4



Set **RF OFF/TEST SIGNAL** to TEST SIGNAL OFF.

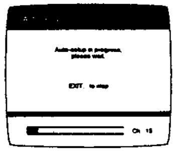
Note:
The test signal is transmitted on video channel 36. If you are encountering interference from a TV broadcast on this video channel, you may readjust to another free channel (30–42) by using the **CH ADJ.** screw which is located on the rear of the VTR.
Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item **2** to **4** above.

Auto Setup

Auto Setup

When the VTR is turned on after connecting the aerial lead and the mains lead, Auto setup (Auto tuning and Auto clock setting) starts.

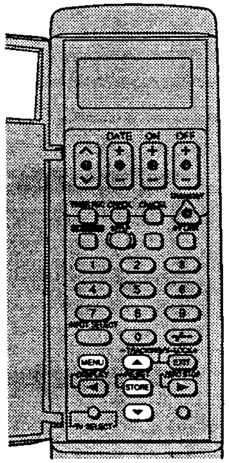
On Screen Display



- The Auto setup is searching for TV station from VHF minimum to UHF maximum and memorizing the data for every programme position. The other programme positions are skipped.
- The Auto setup takes five or more minutes to complete the search for TV station and the clock setting.

Notas:

- If VTR is not correctly set by Auto setup, see **Various Settings** on pages 22–25.
- Auto clock setting will not work correctly if teletext information is not available. If the clock setting screen appears after auto tuning has been completed, set clock manually. See page 25.
- Clock information is subject to teletext information. If year information is not in teletext or time information in teletext is incorrect, set clock manually. See page 25.



Country-Selection

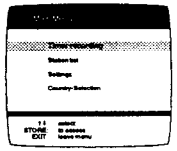
After the Auto setup is finished, select your country to set TV station list, guide number for ShowView and language.

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

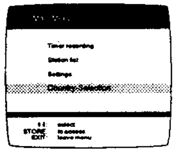
1 Press **MENU**.

MENU



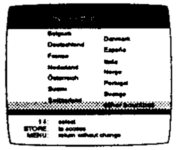
2 Select **Country-Selection**.

▲ ▼ → STORE



3 Select the desired country.
- Refer to page 28 as well.

▲ ▼



4 Press **STORE**, and then press **MENU**.

STORE → MENU

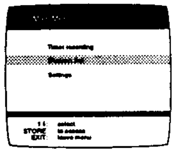
Viewing the TV station list

1 Press **MENU**.

MENU

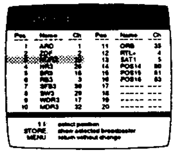
2 Select **Station list**.

▲ ▼ → STORE

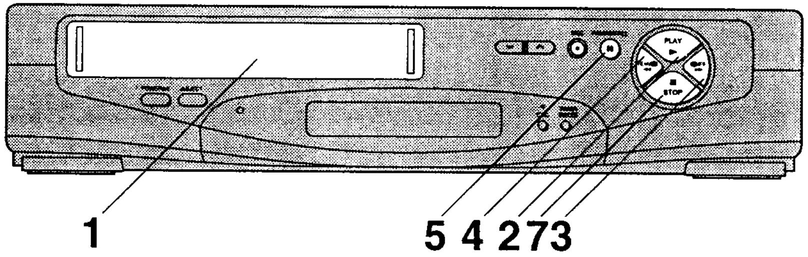


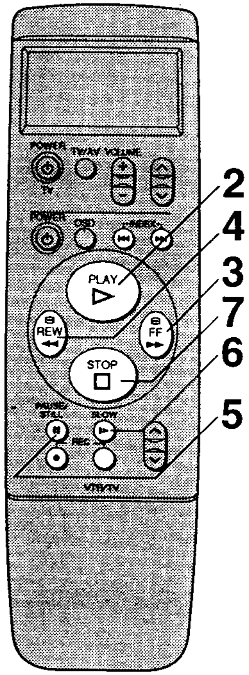
3 Select the desired TV station, if you want to view the broadcast.

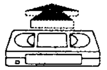
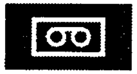
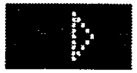
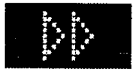
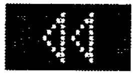
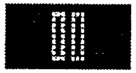
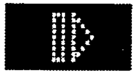
▲ ▼ → STORE



Playback





Operations	Display Symbols	
1 		Insert a recorded cassette tape.
2 PLAY ▷		Start viewing the picture.
3 FF ►►		Search forward by tapping **FF**. •To change back to normal playback, press **PLAY**.
4 REW ◄◄		Search backward by tapping **REW**. •To change back to normal playback, press **PLAY**.
5 PAUSE/STILL		View a still picture. •To continue the normal playback, press **PLAY** or **PAUSE/STILL**.
6 SLOW		View the slow motion picture. •To continue the normal playback, press **PLAY**.
7 STOP □		Stop viewing the picture.

Other Playback Functions

To obtain High Speed Picture During Fast Forward or Rewind

Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.

REW ◄◄ FF ►►

To playback the Recorded Part Repeatedly

Keep **PLAY** pressed for more than 5 seconds.

PLAY ▷

•Press **STOP** to release from Repeat Playback mode.

To return to a Specified Scene

1 Press **RESET** to set the counter to 0:00.00.

RESET STORE

2 After playback, press **ZERO STOP** in the stop mode.
- The tape will be rewound or fast forwarded to 0:00.00 approximately.

ZERO STOP ►

To find the Beginning of Each Recording

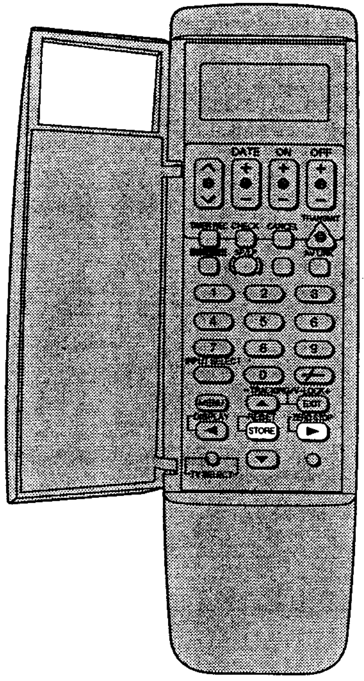
For example:
Searching for the 2nd recorded segment in the forward direction.

Press **INDEX ►►I** twice.

INDEX I◄◄ ►►I

- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX I◄◄**.
- Up to 20 index signals can be searched for in both directions.
- When the opposite **INDEX** button is pressed, the number shall be decreased till 1.
- The figure on the display is decremented by 1 each time an index signal is located.

Recording Index Signals
Index signals are recorded in following cases.
- When a recording is started by pressing **REC**.
- When **REC** is pressed during recording.
- When timer recording is activated.

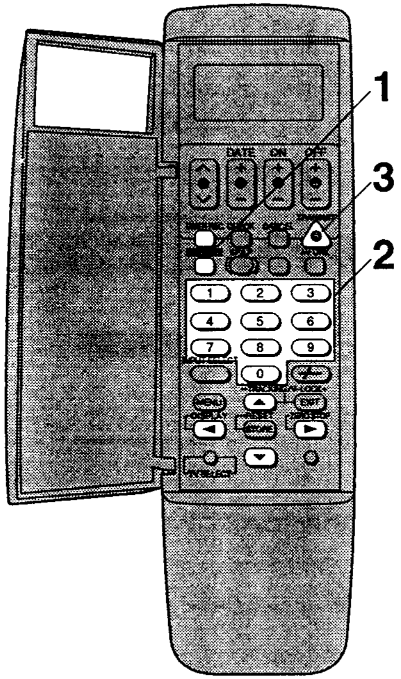


Notes:
- Cue, review or slow playback will be automatically released after 10 minutes, and still playback after 5 minutes.
- The INDEX search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.
- In LP mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. When playing back a tape which was recorded on another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.

Timer Recording

ShowView Programming

Programming is now easier than ever: simply enter the ShowView number provided in the programme schedule column carried by newspapers and magazines. ShowView numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered and **TRANSMIT** is pressed, the numbers are converted into the actual programming and sent to the VTR.



Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.

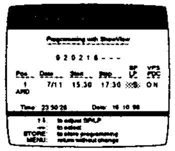
Operations **Display Symbols**

1 Press **SHOWVIEW**.

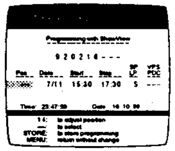
2 Enter a ShowView number.
Example: 920216

3 Press **TRANSMIT**.

On Screen Display



- The VTR will be in the timer recording standby mode after about 1 minute.
- If the "––" appears in the programme position:



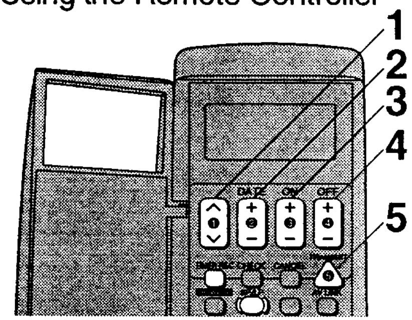
select the programme position of your VTR which receives the TV station you entered at step 2 using button ▲ or ▼.

- To extend the ending time or to make any corrections, use buttons ▲ ▼ ◀ ▶ as the same way steps 3 to 8 on page 18.

Notes:

- To release from the standby mode, press **TIMER REC**.
- When the ShowView number is used for programming, the recording time may be slightly longer than the actual programme time.
- When programming two or more programmes, repeat steps **1**–**3**.
- The procedures for checking and cancelling a timer programme are the same as on page 19.

Using the Remote Controller



For Example:

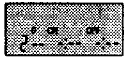
Programme position (channel);	2
Date:	27th, October
Starting time;	20:02
Ending time;	21:30

Preparation

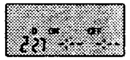
- Insert a cassette tape with an intact erasure prevention tab.
- Open the door of the remote controller.

Operations **Display Symbols**

1 Set Programme position (channel) "2".



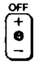
2 Set Date "27".



3 Set Starting time "20:02".

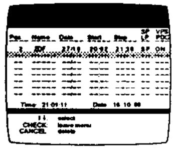
- When it is kept pressed, the indication changes in 30-minute steps.

4 Set Ending time "21:30".



5 Press **TRANSMIT**.

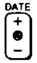
On Screen Display

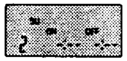


- The VTR will be in the recording standby mode after about 10 seconds.
- To release from the standby mode, press **TIMER REC**.

Weekly Timer Recording

In step **2**, select the desired day by pressing **DATE** –.
For example, SU (Sunday)





(SU=Sunday, MO=Monday, TU=Tuesday, WE=Wednesday, TH=Thursday, FR=Friday, SA=Saturday)

Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Monday to Friday

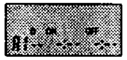
Ⓑ Daily recording from Monday to Saturday

Ⓒ Daily recording from Sunday to Saturday

In step **2**, select the desired days by pressing **DATE** –.
For Example, Ⓒ

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 (TV) or AV2 (DECODER/EXT) sockets, select the A1 or A2 indicator for the programme position.



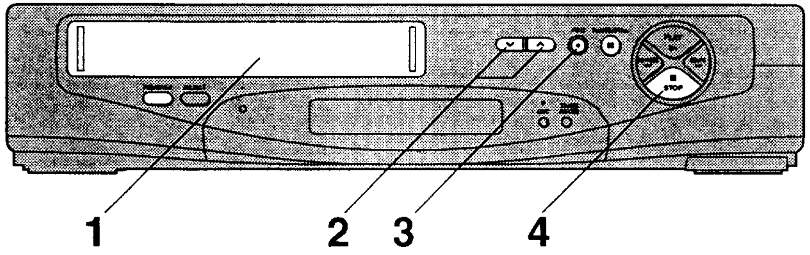
Selecting the Desired Tape Speed

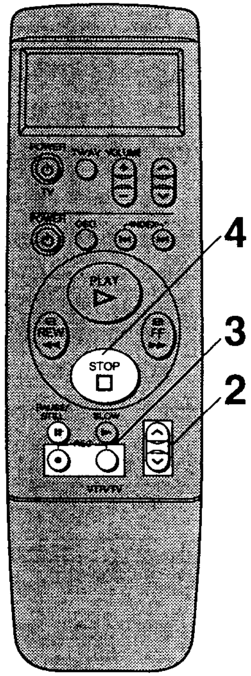
Press **SP/LP** in any of steps **2**–**4**.

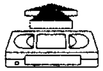
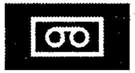
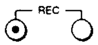
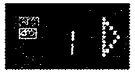
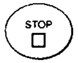
Checking and Cancelling a Timer Programme

The procedures for checking and cancelling a timer programme are the same as on page 19.

Manual Recording

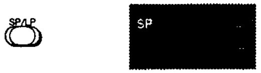



POWER
TV/AV
VOLUME
TV
PLAY
REW
FF
STOP
PAUSE/STILL
SLOW
VTR/TV
4
3
2

	Operations	Display Symbols	
1			Insert a cassette tape. •If it has already been inserted, press **POWER** to turn the VTR on.
2			Select TV station.
3			Start recording.
4			Stop recording.

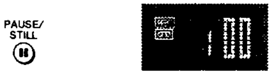
To select the Desired Tape Speed

Press **SP/LP** before recording.



To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.

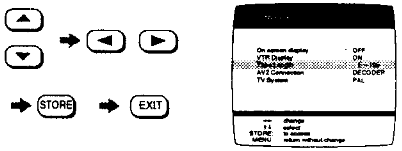

PAUSE/
STILL

To record One TV Programme while Viewing Another Programme

1. Refer to the manual recording operations steps **1** to 3.
2. Select the TV programme on your TV set you wish to view at the present time.

To display the Approximate Remaining Tape Time

1. Select **Tape Length** from On Screen Display and select the corresponding cassette tape length. See page 27.

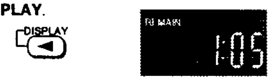

On Screen Display
STORE
EXIT

On screen display OFF
VTR Display ON
Tape Length E-195
AV2 Connection DECODER
TV System PAL

change
select
STORE: to access
MENU return without change

◄ E-180:	For E30, -60, -90, -120 and -180 tapes.
E-195:	For E195 tape.
E-240:	For E240 tape.
E-260 ►:	For E260 and -300 tapes.

2. Press **DISPLAY**.

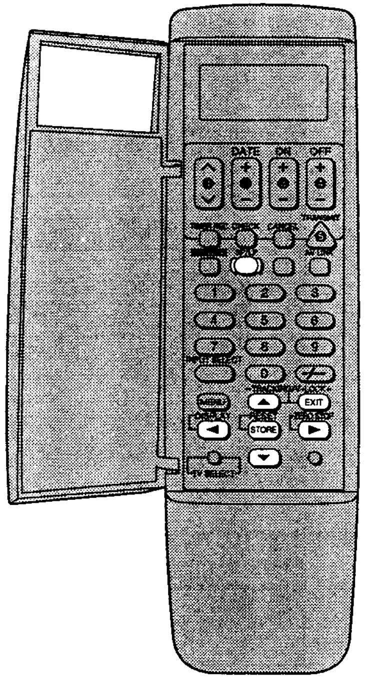

DISPLAY
REMAIN
1:05

→Clock→Counter→**Remaining Tape Time**—

•The remaining tape time may not be displayed correctly depending on the tape used.

Notes:

- •When a video cassette with a broken off tab is inserted, the "▬" indication will flash to indicate that recording is not possible.
- •The recording pause mode will be automatically released after 5 minutes, and be back to the stop mode.

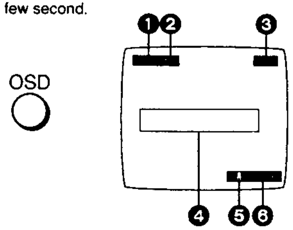

DATE
ON
OFF
STORE
EXIT
TV SELECT

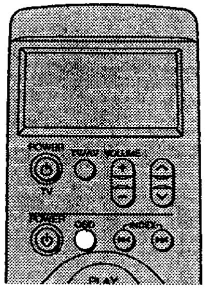
Other Functions

On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.

- To make this display disappear, press **OSD** again or wait a few second.





❶ **TV station**
❷ **TV system**
❸ **Tape speed indicator**
❹ **Error message**
❺ **Tape running display**

Stop, Eject	▮
Rewind	◀◀
Fast Forward	▶▶
Playback	▶
Recording	●
Repeat Playback	R

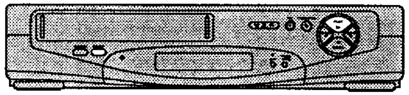
❻ **Present time/Tape counter**

Information	Display
Present time	17:24:31
Tape counter	–2:35.47
Remaining tape time	REMAIN 2:34

Notes:

- On Screen Display may be disturbed or disappear during special playback.
- When the item **"On screen display"** is set to OFF, the On Screen Display will not appear. (See page 26.)

Other Automatic Functions



Automatic Playback

When a cassette without an erasure prevention tab is inserted, the VTR starts playback automatically.

VTR-off Playback

When the VTR is off, an inserted cassette can be played back by pressing **PLAY**.

Automatic Rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

Automatic Switching Off and Ejection

When the VTR is switched off, and inserted cassette can be ejected simply by pressing **EJECT**. The VTR will eject the cassette and automatically turn itself off again.

Editing

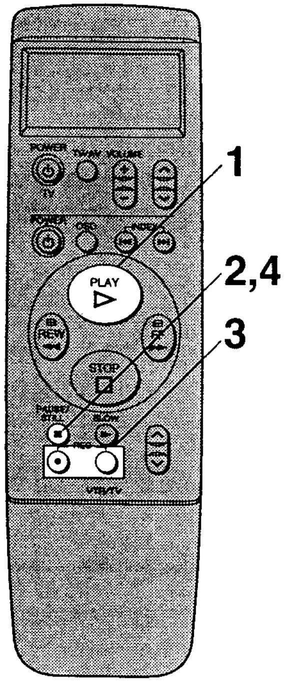
Assembly Editing

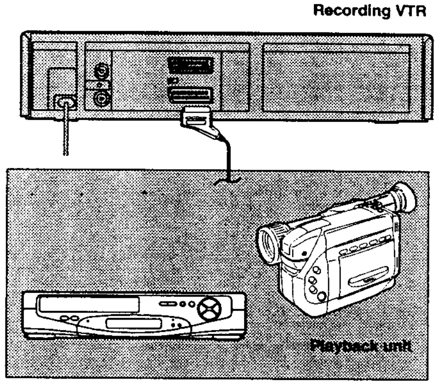
This function can be used to make up an edited tape from other recordings or video sources.

A new scene can be added to the end of a previous one.

Preparations

- Connect a movie camera or another VTR to this VTR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing **INPUT SELECT** to set A1 or A2.
  A1: Through AV1 (TV) socket
  A2: Through AV2 (DECODER/EXT) socket





Operations

1 Search for the end of the previous recording.

PLAY ▷

2 Press **PAUSE/STILL**.

PAUSE/STILL

3 Press **REC** to switch the VTR from the pause mode to the recording standby mode.

REC

4 Start the new recording by pressing **PAUSE/STILL** again.

PAUSE/STILL

Using On Screen Display

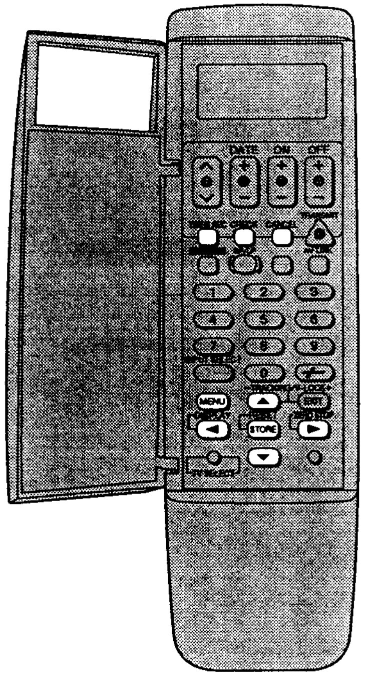
Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including weekly and daily programmes.

Preparations

- Insert a cassette tape with an intact erasure prevention tab.
- Confirm that the TV is on and the VTR viewing channel is selected.

For Example:

Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30
(Present date; 16th, October)	



Follow the operation guide on screen display.

Operations

1 Press **MENU**, and then select **Timer recording**.

2 Select the unoccupied position.

3 Set **Programme position** (channel) "2".
- Press ◄ to return to the previous item.

4 Set **Date** "27/10".

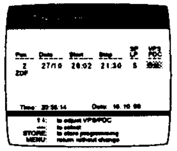
5 Set **Starting time** "20:02".
- When it is kept pressed, the indication changes in 30-minute steps.

6 Set **Ending time** "21:30".

7 Select the desired **Tape speed (SP/LP)**.

8 Select **VPS/PDC ON** or **OFF** (– – –).

On Screen Display



9 Press **STORE**.

10 To activate timer recording, press **TIMER REC**.

Weekly Timer Recording

In step **4**, select the desired day by pressing ▼.

Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Monday to Friday

Ⓑ Daily recording from Monday to Saturday

Ⓒ Daily recording from Sunday to Saturday

In step **4**, select the desired days by pressing ▼.

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1 (TV) or AV2 (DECODER/EXT) sockets, select the A1 or A2 indicator for the programme position.

Setting other Programmes in Succession

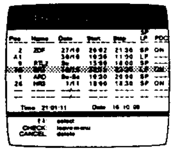
Repeat steps **2**–**9**.

Checking a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⊡" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

Press **CHECK**.
- On Screen Display may be distorted in the PDC/VPS recording standby mode.

On Screen Display



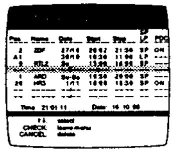
Cancelling a Timer Programme

- The VTR must be turned on, or the timer recording indicator "⊡" is lit.
- Confirm that the TV is on and the VTR viewing channel is selected.

1 Press **CHECK**.

2 Select the desired timer programme.

3 Press **CANCEL**.



Note:

If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. two days later.

However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

PDC (Programme Delivery Control)/VPS (Video Programme System)

The Programme Delivery Control (PDC) or the Video Programme System (VPS) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news are inserted, the recording will also be interrupted automatically and resumed when the programme continues.

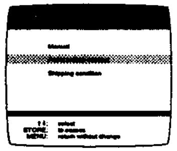
- Model NV-SD400EI is not equipped with VPS (PDC) function.
- In the case of PDC/VPS recording, use the **correct** time (PDC/VPS time) for recording the TV programmes. PDC/VPS recording is not performed when the time (PDC/VPS time) is incorrect, even if only by one minute.
- If the actual broadcasting times of timer recordings overlap (regardless of whether they are PDC/VPS controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the PDC/VPS signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular PDC/VPS signal, the timer recording will be performed in the normal mode (without PDC/VPS) even if it was programmed for PDC/VPS.
  In this case, even if the timer recording is performed, whatever has been programmed will not be cancelled at that particular time but at 4 a.m. on the following day.
- PDC/VPS recording is also possible during timer recording from AV2.

Auto Setup Restart

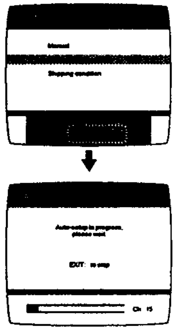
When your address changes, follow the procedure below.
Follow the steps **1** to **3** on page 22.

4 Select **Auto setup restart.**

On Screen Display



5 Press **STORE.**

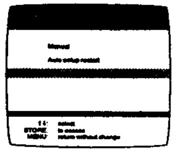


- After the Auto setup is finished, select the your country to set TV station list, guide number for ShowView and language. See page 11.

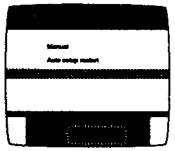
Shipping Condition

If you want to return the VTR to the factory-preset condition, follow the procedure bellow.
Follow the steps **1** to **3** on page 22.

4 Select **Shipping condition.**



5 Press **STORE.**



6 Press **STORE** again.

Note:
To re-tune VTR, disconnect mains lead and then reconnect mains lead. If VTR is off, turn on the VTR. Auto setup starts.

Setting the Clock of your VTR

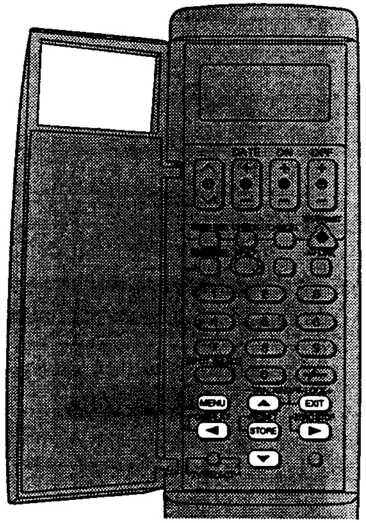
The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

If VTR is not correctly set by Auto setup, follow the procedure below.

Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.



Manual Clock Setting

Follow the operation guide on screen display.

Operations

1 Press **MENU**, and then select **Settings.**

2 Select **Clock.**

3 Select **Manual setting.**

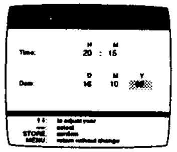
4 Set **Time (H/M).**
- When it is kept pressed, the indication changes in 30-minute steps.
- Press ◀ to return to the previous item.

5 Set **Date (D).**

6 Set **Month (M).**

7 Set **Year (Y).**
- There is no need to press ▶.

On Screen Display



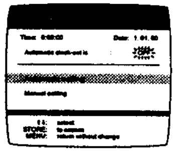
8 Press **STORE.**
- The clock will start.

9 Press **EXIT.**

Automatic Clock Setting

Follow steps **1** to **2** of the above procedure.

3 Select **Automatic setting.**



4 Press **STORE.**
- The clock is set automatically.

Notes:
- The clock operates for at least 60 minutes by its backup system in the event of power failure.
- When the item **"Automatic clock-set is"** is ON on screen display, Automatic time correcting function is activated.
The Automatic time correcting function is only activated when the power is off. This function is not activated during timer recording standby mode.

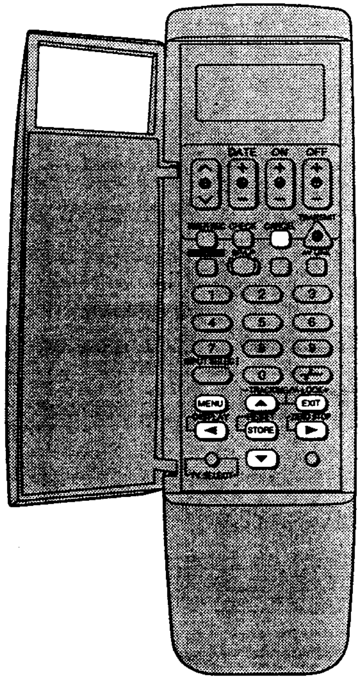
Storing TV Broadcasts into your VTR

Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.
If VTR is not correctly tuned by Auto setup, follow the procedure bellow.

Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR and select the programme position except A1 and A2.



Manual Tuning Procedure

Follow the operation guide on screen display.

Operations

1 Press **MENU**.

2 Select **Settings**.

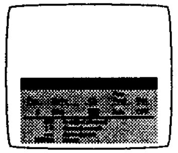
3 Select **Tuning**.

4 Select **Manual**.

5 Select desired **Programme position**.

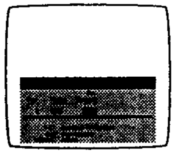
6 Select **Channel (Ch)**.

On Screen Display



7 Select **Dec ON** or **Dec OFF**.
ON: To preset pay TV stations.
OFF: To preset normal TV stations.

8 Use ◀ ▶ to display the next screen.
Select **TV System**.
PAL: For receiving PAL signal.
MESECAM: For receiving SECAM signal.



9 Press **MENU**, and then press **EXIT**.

Channel Plan

Channel Indication	TV Channel	
	Germany/Italy	Other Countries
2–12	*E2–E12	E2–E12
13–20	A–H (Only Italy)	—
21–69	21–69	21–69
74–76	—	S1–S3
80–82	—	M1–M3
83–89	S4–S10	M4–M10
90–99	S11–S20	U1–U10
121–141 Hyperband	**S21–S41	S21–S41

*In Italy: H1...(11), H2...(12)
**Only for 8 MHz channel raster

To change the programme position or TV station name:

After step **5** but before step **8**, select the programme position **(Pos)** or TV station name **(Name)** item using ◀ ▶, and then make the desired change.

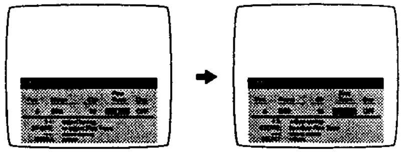
Fine Tuning Procedure

Follow steps **1** to **5** on page 22.

6 Select **Fine Tune**.

7 Press ▲ or ▼ to obtain the best tuning condition.
- To return the tuning to its former state, press **STORE**.

On Screen Display



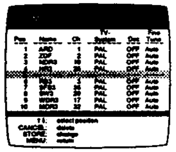
8 Press **MENU**, and then press **EXIT**.

Blanking of Unoccupied Programme positions

Follow steps **1** to **4** on page 22.

5 Select the desired TV station.

6 Press **CANCEL**.

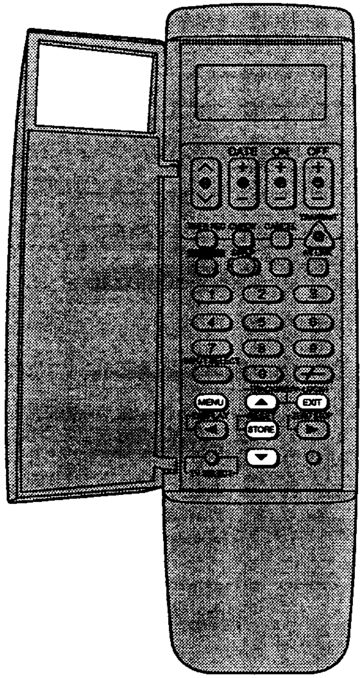


- Repeat steps **5** and **6** for another unoccupied programme positions to skip during the selection of the programme positions.

7 Press **EXIT**.

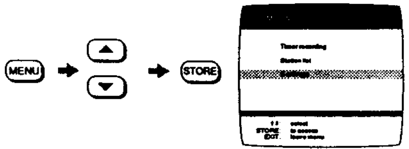
Language-Selection

To change the language setting for On Screen Display, follow the steps bellow.

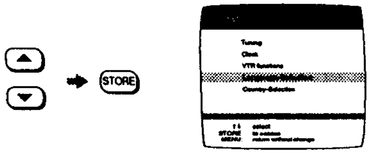


1 Press **MENU**, and then select **Settings**.

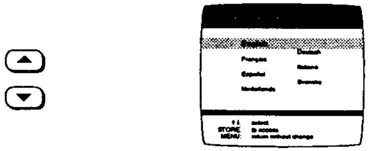
On Screen Display



2 Select **Language-Selection**.



3 Select the desired language.

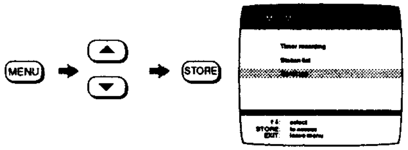


4 Press **STORE**, and then press **EXIT**.

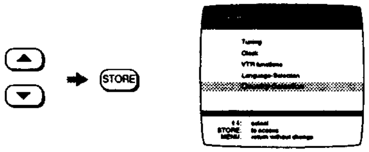
Country-Selection

To change the country setting, follow the steps bellow.

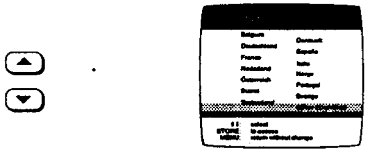
1 Press **MENU**, and then select **Settings**.



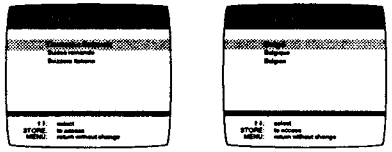
2 Select **Country-Selection**.



3 Select the desired country.



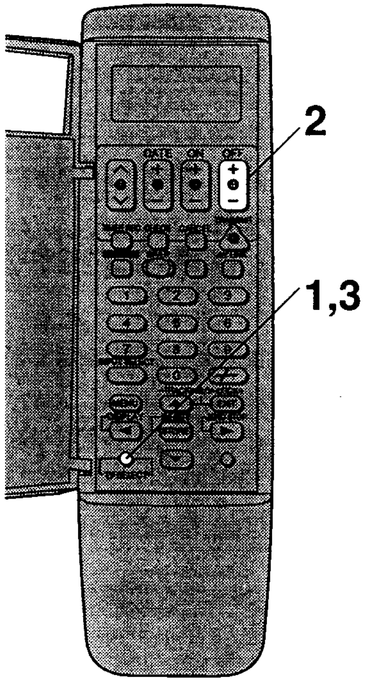
- When Switzerland or Belgium has been selected, operation moves to the screen which follows. Select the item in accordance with the language required.



4 Press **STORE**, and then press **EXIT**.

Setting the Remote Controller for Operation of your TV

You can operate some TV manufacturers (see next page) using the supplied Remote Controller after this setting up.

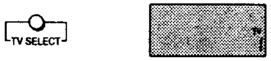


Preparation

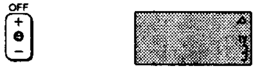
- Turn on the TV.
- Install the batteries in the remote controller. See page 7.

Operations **Display Symbols**

1 Keep **TV SELECT** pressed for more than 2 seconds.

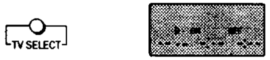


2 Press **OFF** several times.



- When the number matches the manufacturer of your TV, the TV's power is turned off. Read through the information on the following page as well.

3 Press **TV SELECT**.



How to change the number

Each time the "+" side of **OFF** is pressed, the number is counted up by one as follows:

→1→2→3...28

When the "–" side is pressed, the number is counted down by one in the reverse order to that indicated above.

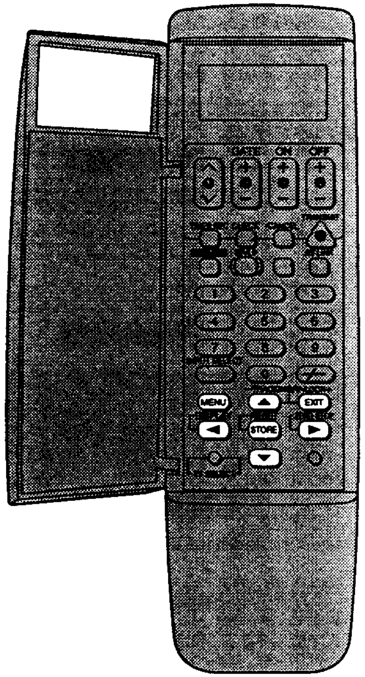
Note:

Some TV models cannot be operated using this remote controller.

Settings Using On Screen Display

Preparations

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR.

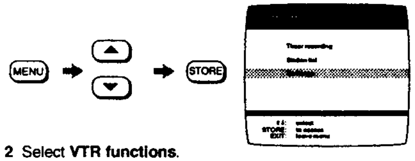


VTR functions

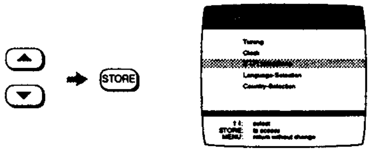
On Screen Display

1 Press **MENU**, and then select **Settings**.

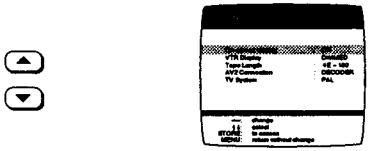
On Screen Display



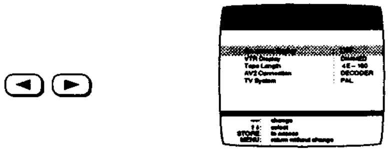
2 Select **VTR functions**.



3 Select **On screen display**.



4 Select **ON** or **OFF**.

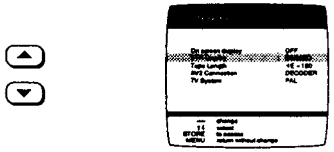


ON:	The On Screen Display will appear on the TV screen by pressing **OSD**.
OFF:	The On Screen Display will not appear even if **OSD** is pressed.

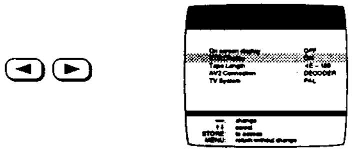
VTR Display

1 Select **VTR Display**.

On Screen Display



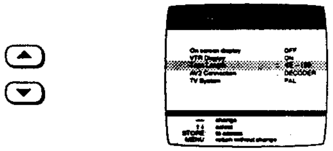
2 Select **ON**, **OFF** or **DIMMED**.



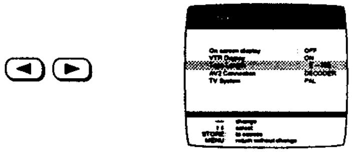
ON:	When VTR is turned off, the characters are lit in the VTR display.
OFF:	When VTR is turned off, the characters are not lit in the VTR display.
DIMMED:	When VTR is turned off, the characters are dimmed in the VTR display.

To select the Corresponding Cassette Tape Length for Displaying the Approximate Remaining Tape Time

1 Select **Tape Length**.



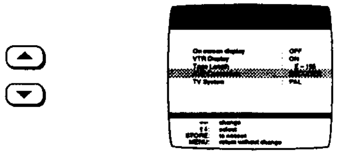
2 Select the corresponding cassette tape length.



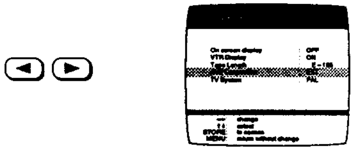
◀ E-180:	For E30, -60, -90, -120 and -180 tapes.
E-195:	For E195 tape.
E-240:	For E240 tape.
E-260 ▶:	For E260 and -300 tapes.

AV2 Connection

1 Select **AV2 Connection**.



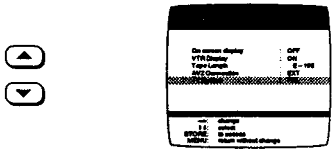
2 Select **EXT** or **DECODER**.



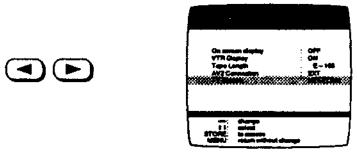
EXT:	When another VTR is connected to the AV2 (DECODER/EXT) socket.
DECODER:	When the decoder is connected to the AV2 (DECODER/EXT) socket.

To set the Colour TV System

1 Select **TV System**.



2 Select **PAL** or **MESECAM**.



- Set according to the colour TV system used during playback or external recording.

After All Settings are selected

Press **STORE**, and then press **EXIT** to make On Screen Display disappear.

Number	Manufacturer
1–4	Panasonic
5	GRUNDIG/Blaupunkt/SIEMENS
6	PHILIPS, LOEWE, SAMSUNG, RADIOLA, DUAL, PYE, BUSH, GOODMANS, ELEMIS, CURTIS
7	SONY
8	METZ
9*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA
10*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS
11*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA
12*	FERGUSON, TELEFUNKEN, GOODMANS, SABA
13*	TELEFUNKEN
14*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA
15*	FERGUSON, THOMSON, TELEFUNKEN, GOODMANS, SABA, NORDMENDE, BRANDT
16*	TELEFUNKEN
17, 18	HITACHI
19	SIEMENS
20	SAMSUNG
21	ITT, NOKIA, SELECO
22	NOKIA, SALORA
23	MIVAR
24	TOSHIBA
25	SANYO
26	SHARP
27	JVC
28	MITSUBISHI

When a TV manufacturer has the plural number
For example, When the number is 1, 2, 3 or 4 (Panasonic):
When the TV's power is turned off in step **2** above, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the number matches the TV manufacturer. If it is not possible to adjust the TV's volume, try setting the number (1 to 4) to match the TV manufacturer again until the volume can be adjusted.

***When the number is 9–16**
How to change the programme position of TV:

1 Press ∧ **(TV)** to make **POS** appear on screen display.

2 Press **VOLUME** + or –.
- To adjust the TV's volume using the remote controller after that, press ∧ (TV) to make **POS** on screen display disappear and then adjust the volume. For some models, **POS** disappears automatically after several seconds. In these cases, this operation is not necessary.

Note:
FERGUSON, THOMSON, TELEFUNKEN, GOODMANS and SABA have plural numbers. Although some models may operate with any of these numbers, other models may operate with only one number. Check each number in turn, and set the optimal number.

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

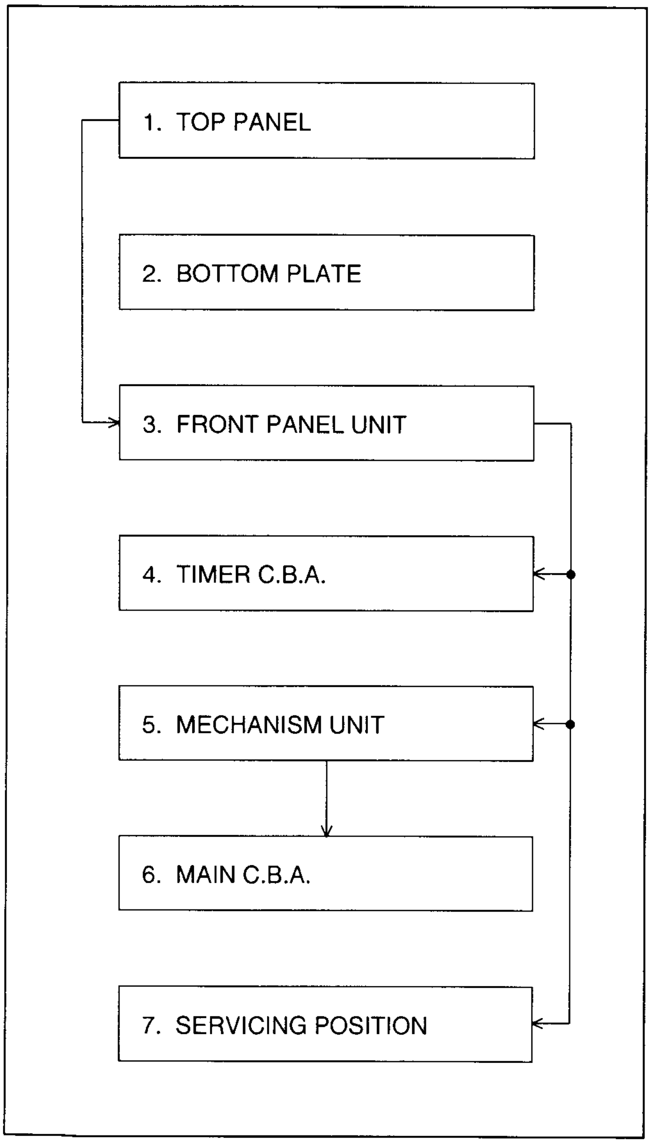

1. TOP PANEL
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. TIMER C.B.A.
5. MECHANISM UNIT
6. MAIN C.B.A.
7. SERVICING POSITION

Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove...... 4 Screws (A)

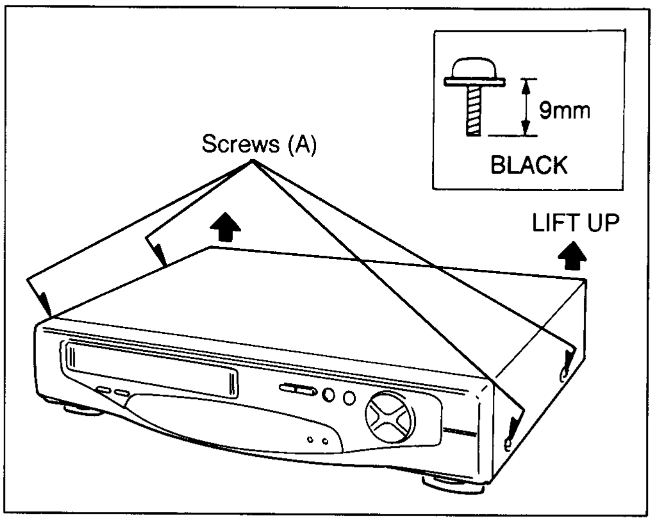

Screws (A)
9mm
BLACK
LIFT UP

Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove...... Screw (B)
Remove...... 2 Screws (C)
Unlock .... 4 tabs (D)

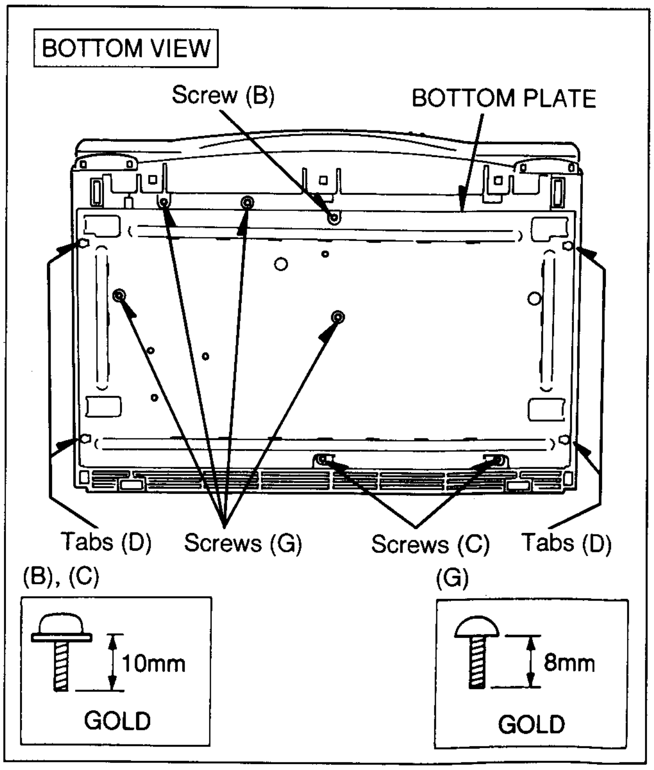

BOTTOM VIEW
Screw (B)
BOTTOM PLATE
Tabs (D)
Screws (G)
Screws (C)
Tabs (D)
(B), (C)
10mm
GOLD
(G)
8mm
GOLD

Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove...... Screw (D)
Unlock........ 8 Tabs (E)

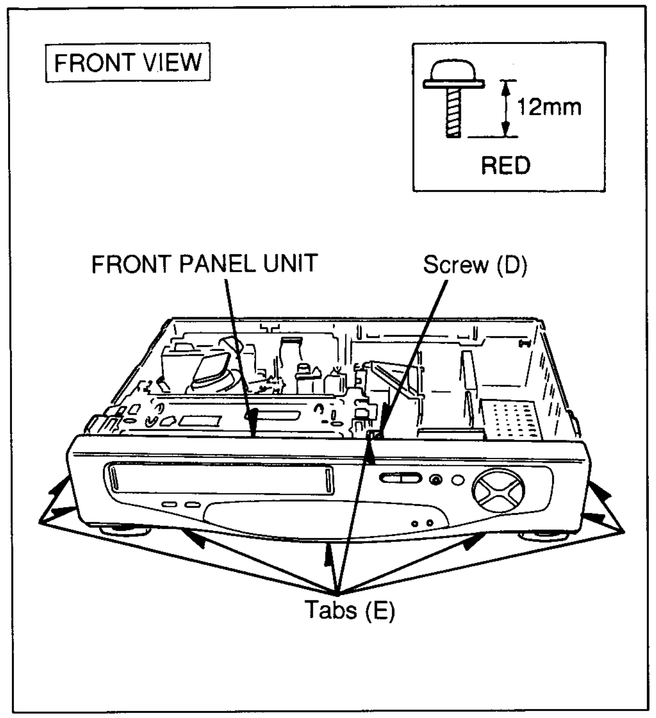

FRONT VIEW
12mm
RED
FRONT PANEL UNIT
Screw (D)
Tabs (E)

Fig. D4

4. REMOVAL OF THE TIMER C.B.A.

Unlock........ 5 Tabs (F)

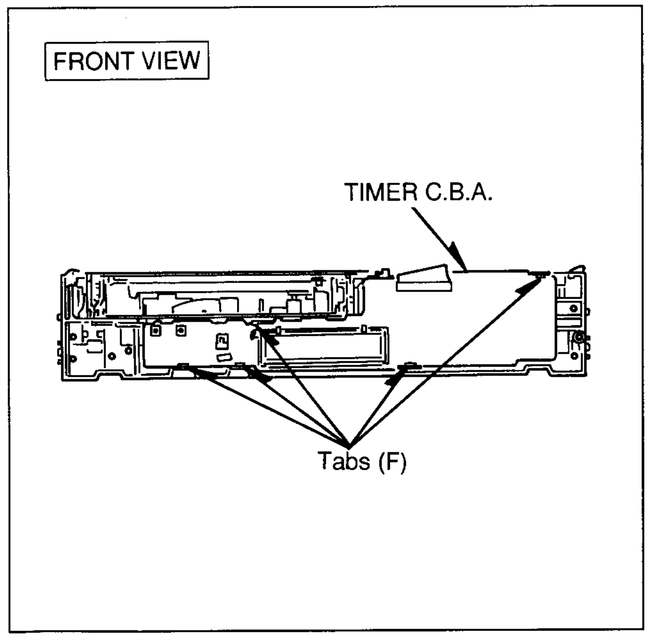

FRONT VIEW
TIMER C.B.A.
Tabs (F)

Fig. D5

5. REMOVAL OF THE MECHANISM UNIT

Remove...... 3 Screws (G) [Fig. D3]
Remove...... 3 Screws (H)
Remove...... Screw (I)
Unlock........ Tab (J) and PACK HOLDER

6. REMOVAL OF THE MAIN C.B.A.

Remove...... 2 Screws (C) [Fig. D3]
Unlock........ 7 Tabs (K)

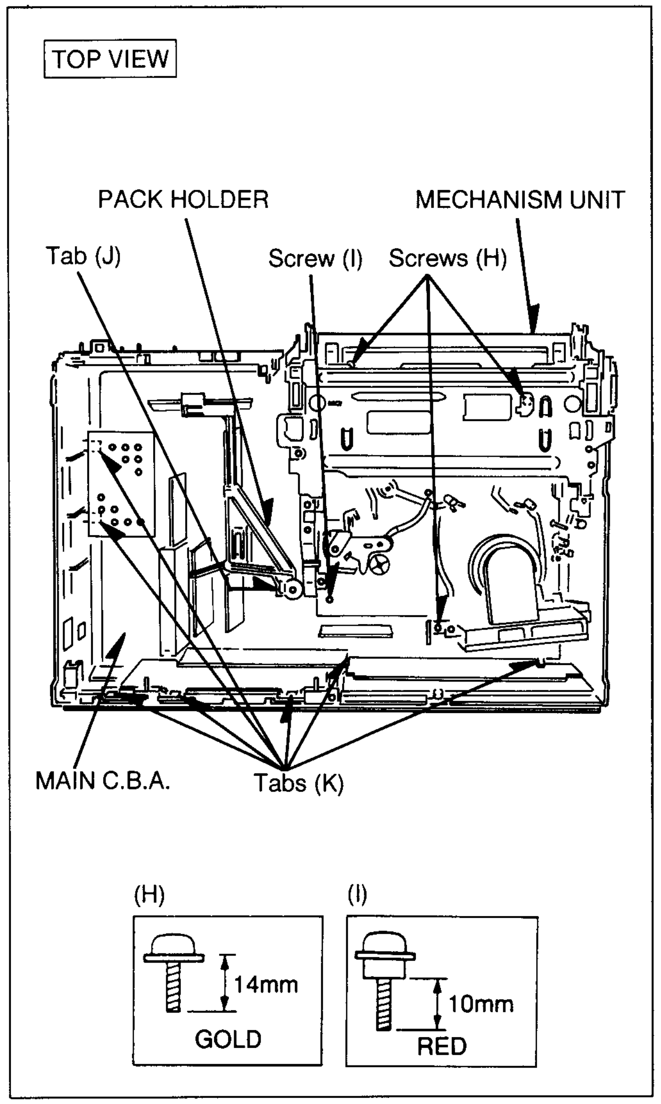

TOP VIEW
PACK HOLDER
MECHANISM UNIT
Tab (J)
Screw (I)
Screws (H)
MAIN C.B.A.
Tabs (K)
(H)
14mm
GOLD
(I)
10mm
RED

Fig. D6

7. SERVICING POSITION

Remove...... 2 Screws (C) [Fig. D3]
Remove...... 3 Screws (H)
Remove...... Screw (I)
Unlock........ Tab (J) and PACK HOLDER
Unlock........ 7 Tabs (K)

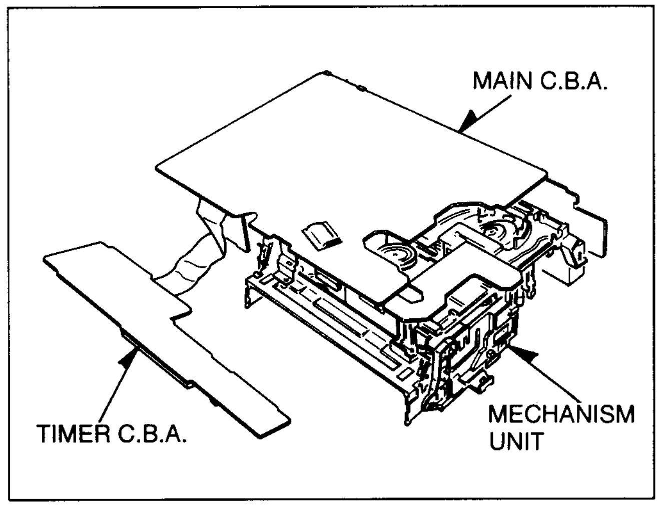

MAIN C.B.A.
TIMER C.B.A.
MECHANISM
UNIT

Fig. D7

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

CAUTIONS:

To make a Adjustment Mode for Tape Interchangeability, there are two ways to turn off the Auto Tracking.

(1) Connect a jumper wire (K2501) which has been cut as shown in Fig. M1.
After finishing the adjustment, disconnect the jumper wire.
(2) Press the "FF", "REW" and "EJECT" buttons 3 times to set the Service Mode 2.

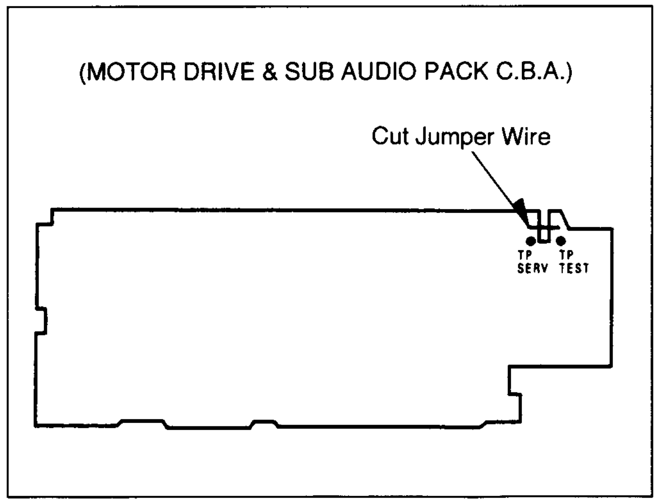

(MOTOR DRIVE & SUB AUDIO PACK C.B.A.)
Cut Jumper Wire
TP SERV
TP TEST

Fig. M1

2-3. DISASSEMBLY PROCEDURES OF MECHANISM

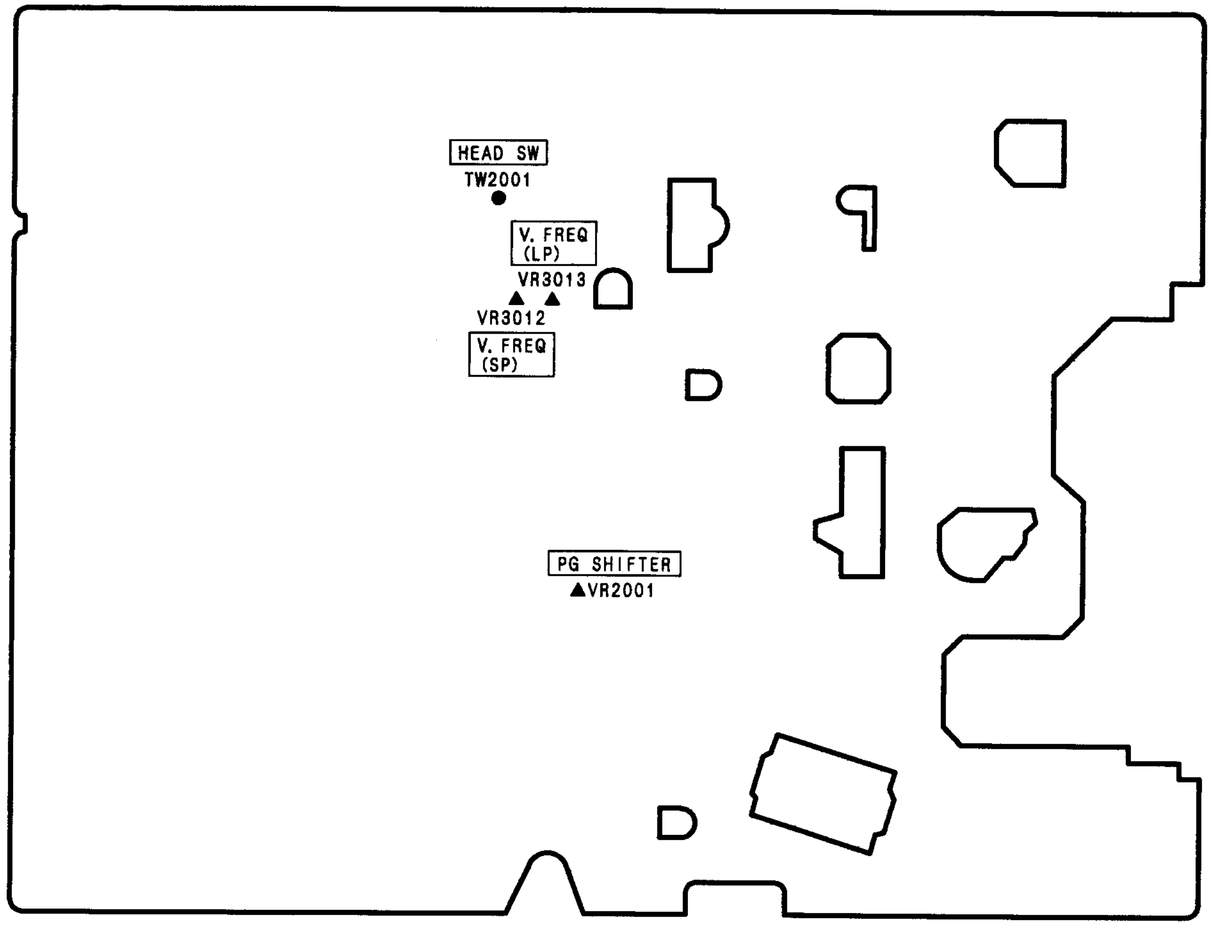
The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

2-4. ASSEMBLY PROCEDURES OF MECHANISM

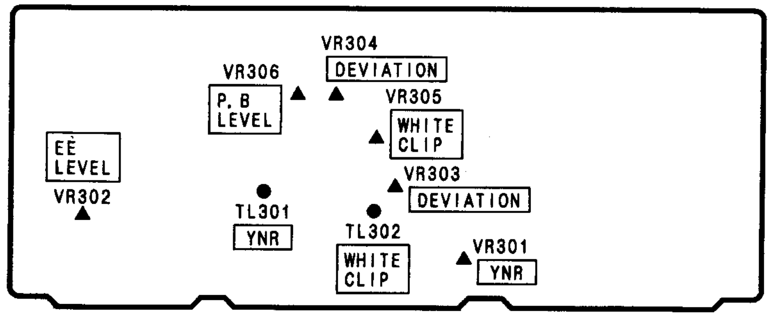
The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

LOCATION OF TEST POINTS & CONTROLS

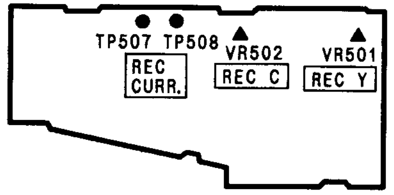
MAIN C. B. A.


HEAD SW
TW2001
V. FREQ (LP)
VR3013
VR3012
V. FREQ (SP)
PG SHIFTER
VR2001

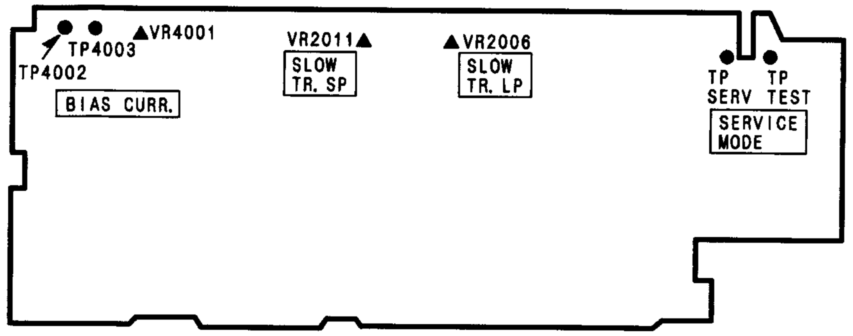
LUMINANCE & CHROMINANCE PACK C. B. A.


VR304
DEVIATION
VR306
P. B LEVEL
VR305
WHITE CLIP
EE LEVEL
VR302
VR303
DEVIATION
TL301
YNR
TL302
WHITE CLIP
VR301
YNR

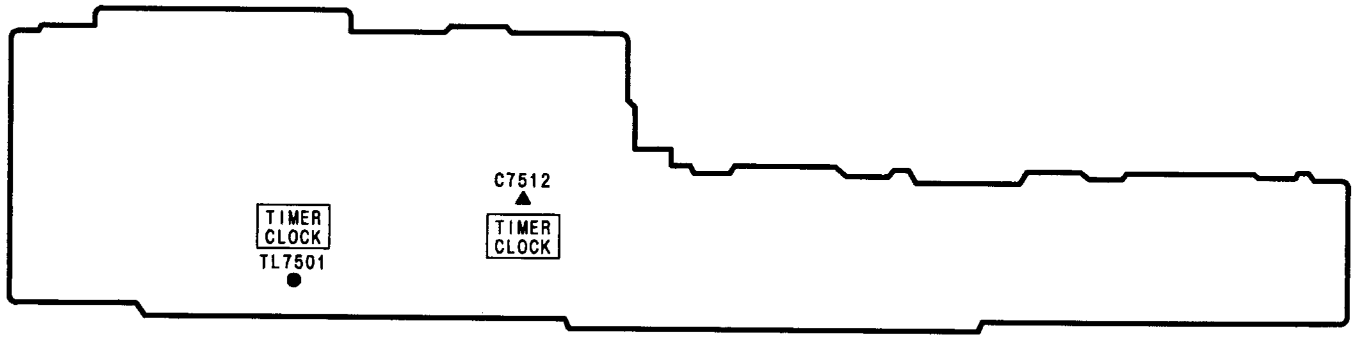
HEAD AMP C. B. A.


TP507
TP508
VR502
VR501
REC CURR.
REC C
REC Y

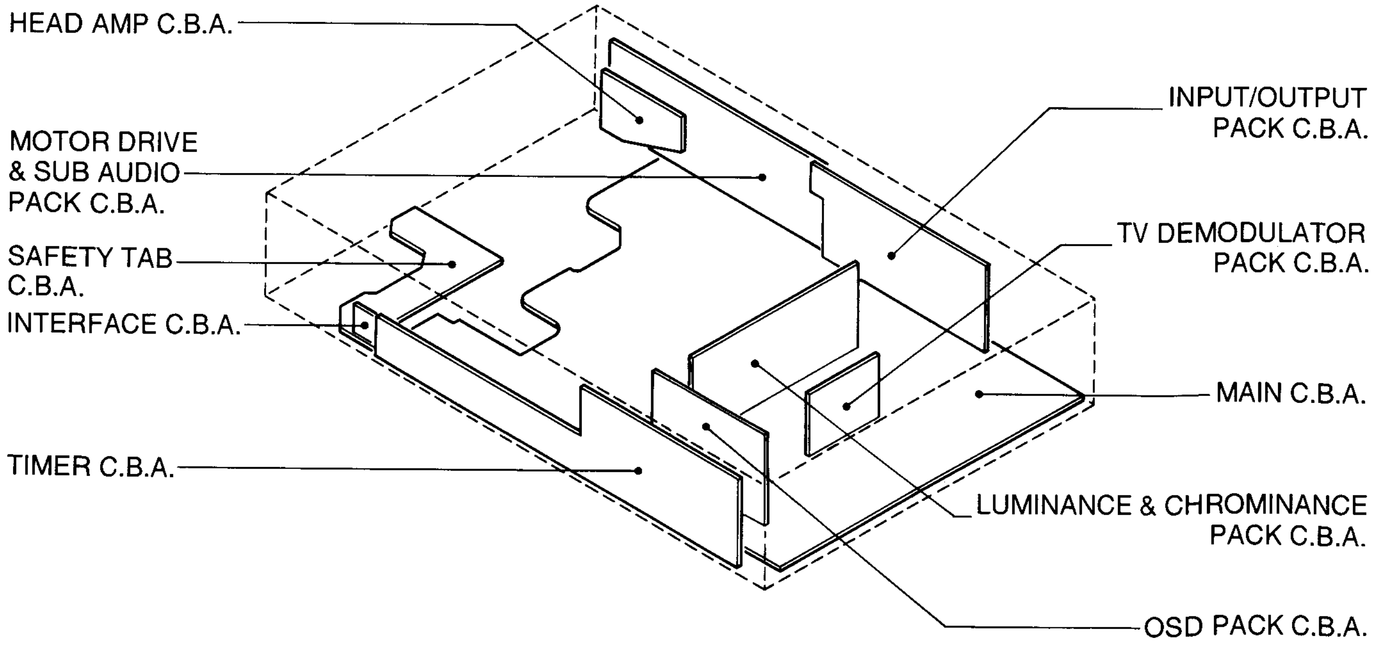
MOTOR DRIVE & SUB AUDIO PACK C. B. A.


VR4001
TP4003
TP4002
BIAS CURR.
VR2011
SLOW TR. SP
VR2006
SLOW TR. LP
TP SERV
TP TEST
SERVICE MODE

TIMER C. B. A.


C7512
TIMER CLOCK
TIMER CLOCK
TL7501

CIRCUIT BOARD LAYOUT


HEAD AMP C.B.A.
MOTOR DRIVE & SUB AUDIO PACK C.B.A.
SAFETY TAB C.B.A.
INTERFACE C.B.A.
TIMER C.B.A.
INPUT/OUTPUT PACK C.B.A.
TV DEMODULATOR PACK C.B.A.
MAIN C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
OSD PACK C.B.A.

2-5. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VHS Video Cassette Recorders.

2-5-1. TEST EQUIPMENT

To perform electrical adjustments following equipment is required.

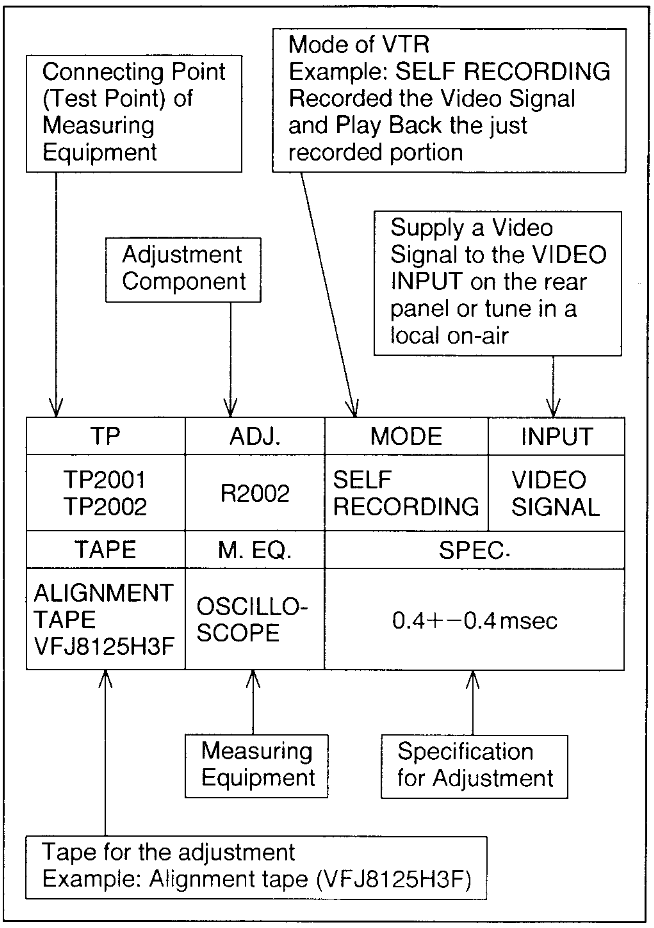
1. Dual-Trace Oscilloscope. (More than 35 MHz)
    Voltage Range: 0.005-5 V/div
    Frequency Range: DC-35 MHz
    Probes: 10:1 OR 1:1
2. Frequency Counter.
    Frequency Range: 0-10 MHz
    Probes: 1:1
3. Universal Counter.
4. Digital Volt Meter. (D.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.
12. DC Power Supply.

2-5-2. PREPARATION

During adjustment, set each selector as follows: when no indication in the procedure.

CVC SW	ON
TAPE SPEED	SP
CHANNEL	AV1
TEST SIGNAL SW (REAR)	OFF

2-5-3. HOW TO READ ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR Example: SELF RECORDING Recorded the Video Signal and Play Back the just recorded portion
Adjustment Component
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air
Measuring Equipment
Specification for Adjustment
Tape for the adjustment Example: Alignment tape (VFJ8125H3F)

TP	ADJ.	MODE	INPUT
TP2001 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	0.4+−0.4msec	

Fig. E1

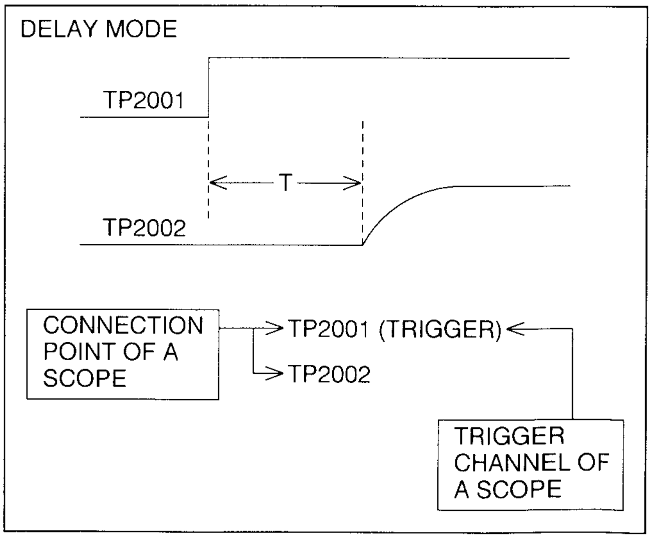

DELAY MODE
TP2001
T
TP2002
CONNECTION POINT OF A SCOPE
TP2001 (TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig. E2

SERVO SECTION

2-5-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TW2001 VIDEO OUT	VR2001	PLAYBACK	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0+−0.5 (H)	

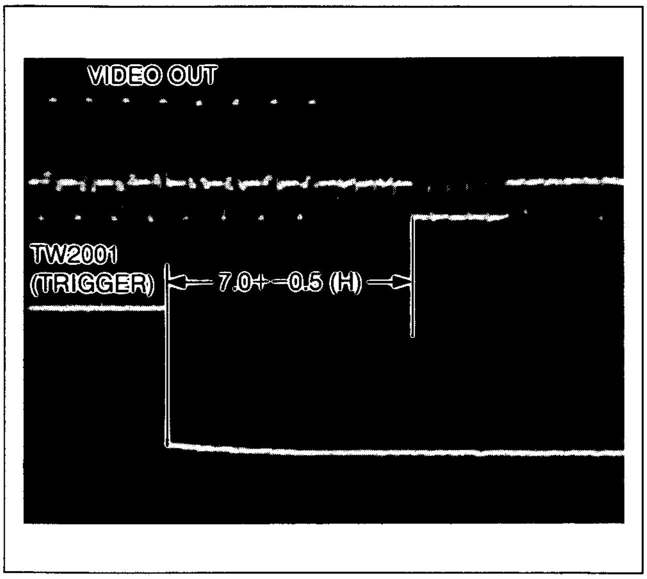


Fig. E3

2-5-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2011 (SP) VR2006 (LP)	(SELF RECORD) SLOW	CCIR PATTERN
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

Note: 1. Before this adjustment, connect a jumper wire which has been cut as shown in Fig. E4 or set the service mode 2 (refer to section 2-2).
2. After connecting a jumper wire or setting the service mode 2, press the TRACKING (+) and (−) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.
3. After this adjustment, disconnect a jumper wire or cancel the service mode.

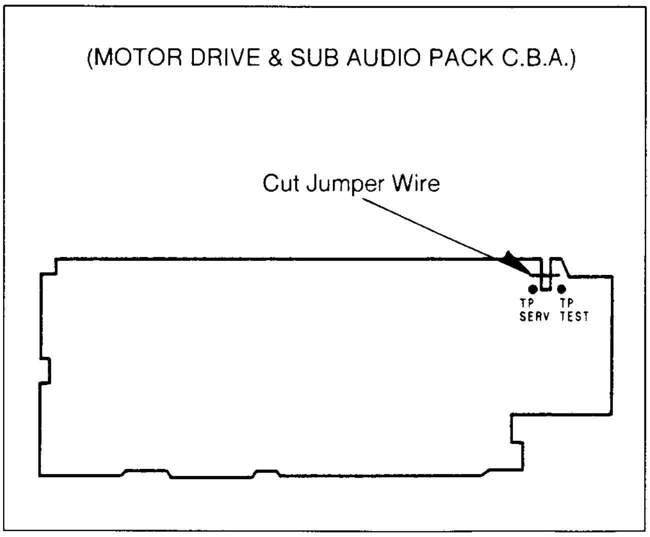


Fig. E4

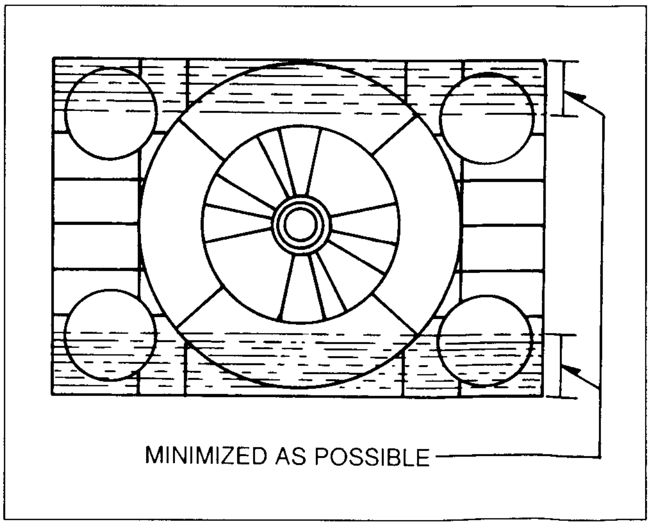


Fig. E5

LUMINANCE & CHROMINANCE SECTION

2-5-6. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR501 (Y) VR502 (C)	SP RECORDING	PAL COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	Y=130+−5 (mVp-p) C=32+−2 (mVp-p)	

Note: 1. Adjust the Luminance level so that the peak level of V-SYNC is 130+−5mVp-p.

2. When adjusting the Chrominance level, Supply +5V DC to Pin 6 of PP3001 to eliminate Luminance component.

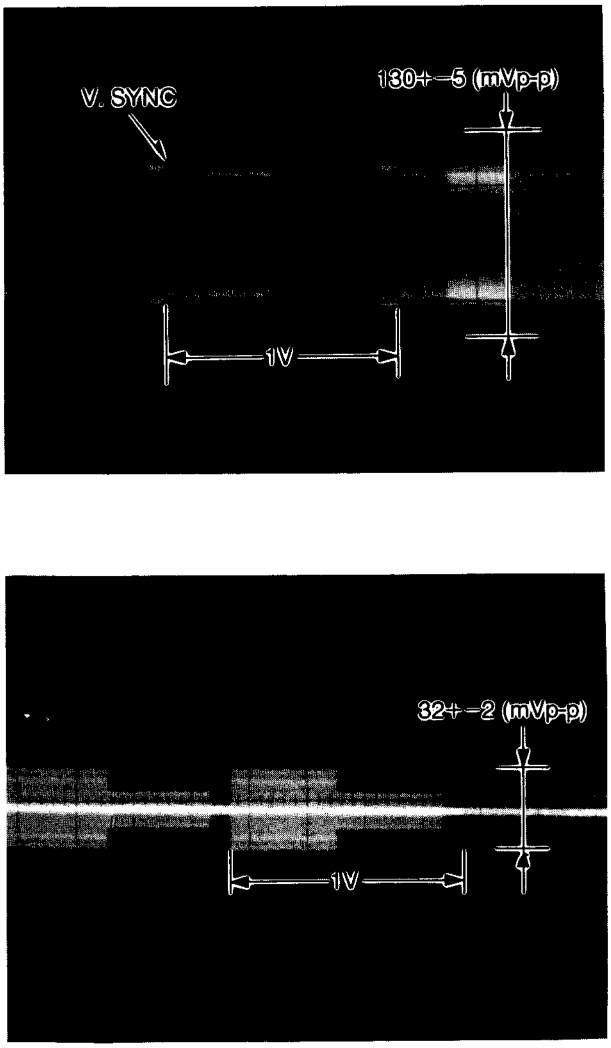


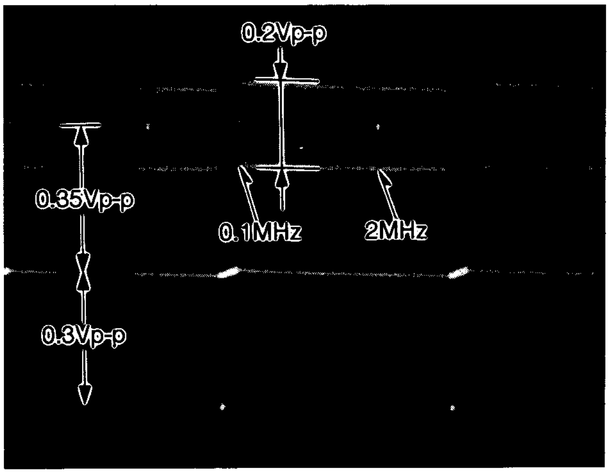
Fig. E6

2-5-7. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR3012 (SP) VR3013 (LP)	SP/LP (SELF RECORD) PLAYBACK	VIDEO SWEEP SIGNAL (Shown in Fig. E7)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+−1 (dB) (90−110%) LP: 0+−1 (dB) (90−110%)	

Note: 1. Set the Video Sweep Signal as shown in Fig. E7.

2. Set the CVC SW to OFF position.



CONDITION: BURST SIGNAL OFF
75 ohm TERMINATED

Fig. E7

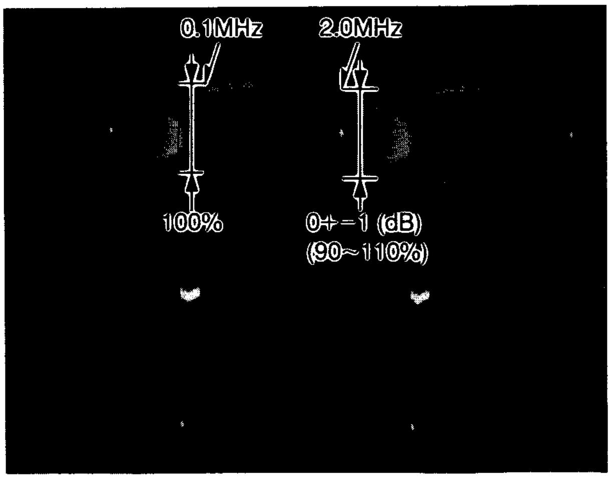


Fig. E8

2-5-8. EE LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR302	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	OSCILLO-SCOPE	Y: 2.0+−0.1 Vp-p	

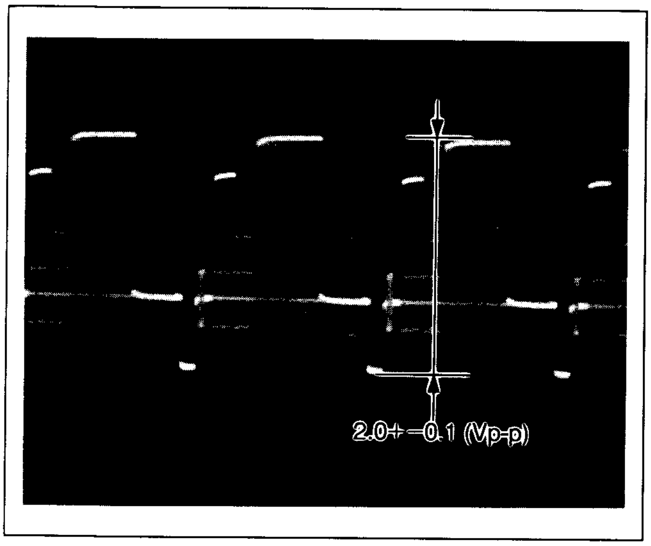


Fig. E9

2-5-9. WHITE CLIP ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-80 (TL302)	VR305	RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	OSCILLO-SCOPE	WHITE CLIP LEVEL: 185+−3%	

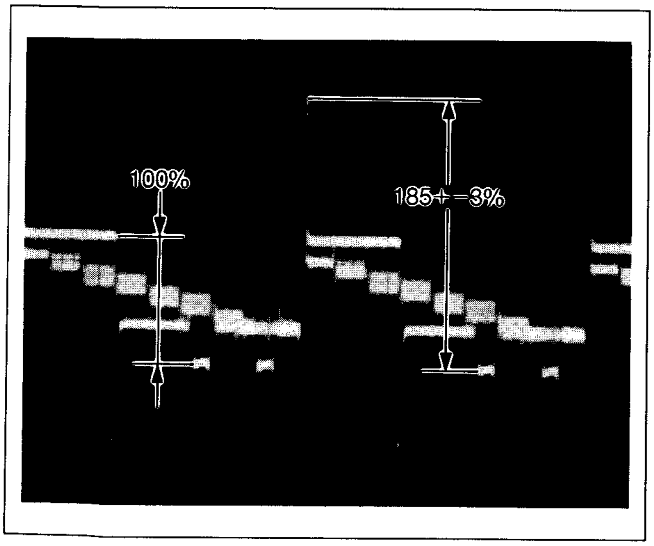


Fig. E10

2-5-10. PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR306	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	Y: 2.0+−0.1 Vp-p CYAN: 1.1+−0.3 Vp-p	

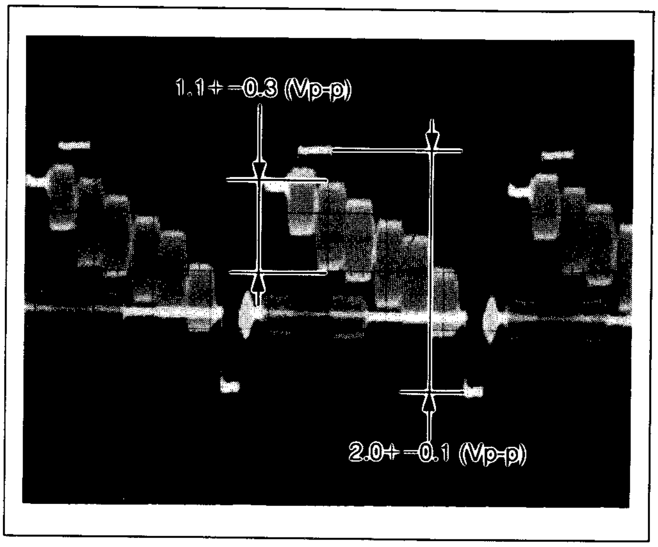


Fig. E11

2-5-11. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR303 VR304	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	Y: 2.0+−0.1 (Vp-p) (VIDEO: SYNC=70 : 30)	

Note: 1. Before this adjustment, the PLAYBACK LEVEL ADJUSTMENT (2-5-10) must be done.
2. Record the colour bar signal and adjust VR303 and VR304 during recording.
3. Playback the just recorded portion and confirm the playback Y-signal level is 2.0+−0.1 Vp-p.
4. If the signal level is out of the specification, repeat 2 and 3 until the signal level is the specification.

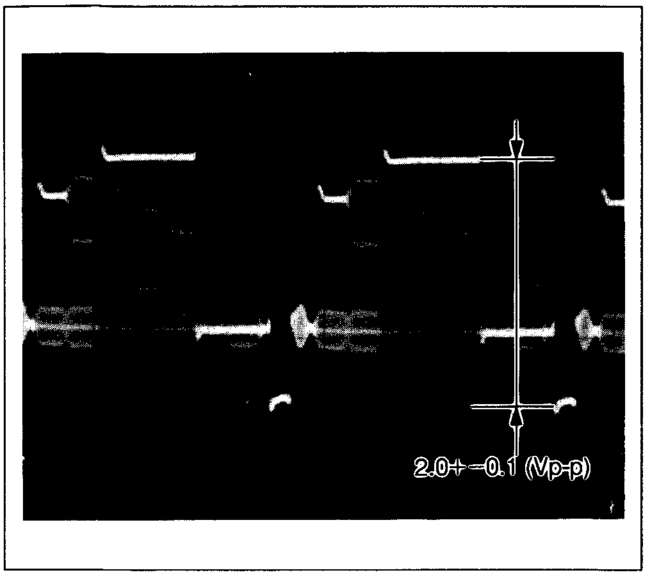


Fig. E12

2-5-12. YNR ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302-71 (TL301)	VR301	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMUM	

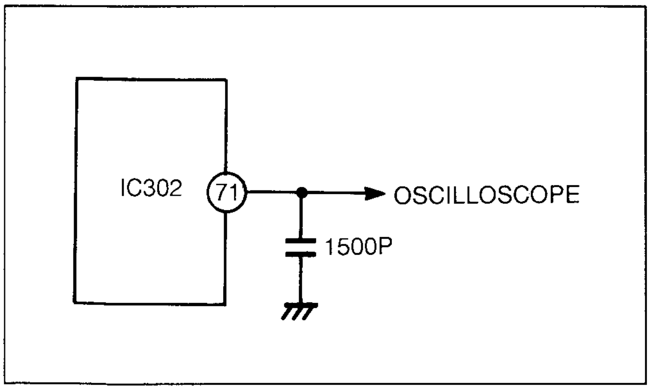


Fig. E13

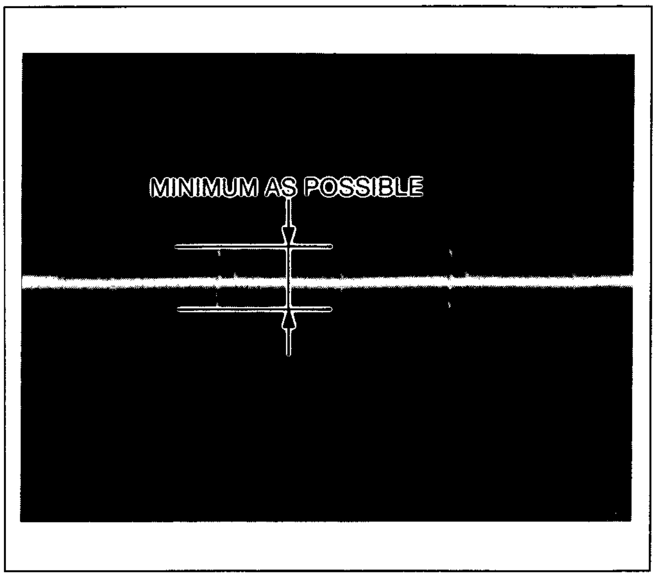


Fig. E14

AUDIO SECTION

2-5-13. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT) TP4003 (GND)	VR4001	RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	D.V.M.	2.6+−0.1 (mVrms)	

Note: 1. Connect the Audio Input and GND.

TIMER SECTION

2-5-14. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL7501	C7512	STOP	
TAPE	M. EQ.	SPEC.	
	UNIVERSAL COUNTER	7812.5+−0.015 (usec)	

SECTION 3
ABBREVIATIONS & BLOCK DIAGRAMS

3-1. ABBREVIATIONS

443NT [L]	4.43 NTSC Ⓛ
A. COMP	AUDIO COMPONENT SIGNAL
A. COMPO	AUDIO COMPONENT SIGNAL
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ
A. DEF [S]	AUDIO DEFEAT
A. DEF [S] [L]	AUDIO DEFEAT
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ
A. DUB [H]	AUDIO DUBBING Ⓗ
A. ERASE	AUDIO ERASE
A. H. SW	AUDIO HEAD SWITCHING PULSE
A. HEAD [R]	AUDIO HEAD (REC)
A. HEAD [W]	AUDIO HEAD (PLAY)
A. IN [L]	AUDIO INPUT (L)
A. IN [R]	AUDIO INPUT (R)
A. MUT [H]	AUDIO MUTE Ⓗ
A. MUTE [H]	AUDIO MUTE Ⓗ
A. OUT [L]	AUDIO OUTPUT (L)
A. OUT [R]	AUDIO OUTPUT (R)
A. RF OUT	AUDIO RF SIGNAL OUTPUT
A/VS/S. DATA	AV SW/SERIAL DATA
AC ONLINE	AC ONLINE
AC. O/EE. H	AC ONLINE/EE Ⓗ
AFC S C	AFC S CURVE
AFC [S]	AFC S CURVE
AFC. DEF	AFC DEFEAT
ARFC OUT	AUDIO RF SIGNAL OUTPUT
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE
AUDIO IN [L]	AUDIO INPUT (L)
AUDIO IN [R]	AUDIO INPUT (R)
AUDIO OUT [L]	AUDIO OUTPUT (L)
AUDIO OUT [R]	AUDIO OUTPUT (R)
AUDIO SELECT [H]	AUDIO SELECT Ⓗ
AUDIO. L	AUDIO (L)
AUDIO. R	AUDIO (R)
AV CNT	AV CONTROL
AV CTL	AV CONTROL
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK
AV. C.M.	AV CONTROL MODE
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)
AVSW/METER. L	AV SW/LEVEL METER (L)
B MODE. H	B MODE Ⓗ
B.G.P	BURST GATE PULSE
BACKUP 5V	BACK UP 5V
BAND. U.E.	BAND U
BANDVL. D	BAND VL
BI/MI [L]	BILINGUAL/MIX Ⓛ
BIL	BILINGUAL
BIL [L]	BILINGUAL Ⓛ

BIL. [H]	BILINGUAL Ⓗ
BIL/M1 [L]	BILINGUAL Ⓛ
BS CLOCK	BS CLOCK
BS DATA	BS DATA
BS LCH IN	BS L CHANNEL INPUT
BS MIX [H]	BS MIX Ⓗ
BS MON [H]	BS MONITOR Ⓗ
BS MONI [H]	BS MONITOR Ⓗ
BS RCH IN	BS R CHANNEL INPUT
BS VIDEO	BS VIDEO SIGNAL
BS VIDEO/BS1	BS VIDEO SIGNAL
BS [H]	BS Ⓗ
BS. LEVEL	BS LEVEL
BS. M [H]	BS MONITOR Ⓗ
BS/VTR [H]	BS/VTR Ⓗ
BUS CLK	BUS CLOCK
BUS LSN	BUS LISTEN
BUS TLK	BUS TALK
BUZZER	BUZZER
CAP EC	CAPSTAN TORQUE CONTROL
CAP M GND	CAPSTAN MOTOR GND
CAP. ET	CAPSTAN TORQUE CONTROL
CAP. FG1	CAPSTAN FG1 PULSE
CAP. FG2	CAPSTAN FG2 PULSE
CAS. SW	CASSETTE SW
CCN	PLAYBACK CONTROL SIGNAL (−)
CCP	PLAYBACK CONTROL SIGNAL (+)
CHM	CONTROL SIGNAL (+)
CHP	CONTROL SIGNAL (−)
CINEM [L]	CINEMA Ⓛ
CINEMA [L]	CINEMA Ⓛ
CINEMA/MIX	CINEMA/MIX
CKL	RATCH LOCK
CKS	SHIFT LOCK
CL	CLOCK
CLK	CLOCK
CLK (C.G)	CLOCK
CLOCK. IN	CLOCK INPUT
CLP	CLAMP
COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
COLOR [H]	COLOUR Ⓗ
CONV	CONVERTOR
CS	CHIP SELECT
CTL GND	CONTROL GND
CTL HEAD [+]	CONTROL HEAD (+)
CTL HEAD [−]	CONTROL HEAD (−)
CTL [+]	CONTROL HEAD (+)
CTL [−]	CONTROL HEAD (−)
CUE BIAS	CUE BIAS
CURRENT LIM	CURRENT LIMMITER
CYL ET	CYLINDER TORQUE CONTROL
CYL GND	CYLINDER GND
D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
D. FM REC [L]	DELAIED FM RECORDING Ⓛ
D. GND	DIGITAL GND

D. REC [H]	DELAYED RECORDING Ⓗ
D4/S. LED	D4/STILL LED
D4/STILLED	D4/STILL LED
DAC [CLK]	TUNER DAC (CLOCK)
DAC/FSCS	TUNER DAC/FS CHIP SELECT
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ
DATA	DATA
DECODER [L]	DECODER (L)
DECODER [R]	DECODER (R)
DEW	DEW
DEW SNS	DEW SENSOR
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ
E. REC 5V	EXCEPT RECORDING 5V
EC	ERR0R TORQUE CONTROL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE
EDT TRIG [L]	EDIT TRIGGER Ⓛ
EDIT [H]	EDIT Ⓗ
EE [H]	EE Ⓗ
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ
EE. VV. TR	EE/VV/TRICK PLAY
EJECT. PO	EJECT POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK
ENV. SEL	ENVELOPE SELECT
ENVE. OUT	ENVELOPE OUTPUT
ENVE. SEL	ENVELOPE SELECT
ENV SELECT	ENVELOPE SELECT
EP [H]	LP Ⓗ
EP/LP [H]	LP Ⓗ
EP/LP/SP	LP/SP
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ
EPROMCS	EPROM CHIP SELECT
EX. REC 5V	EXCEPT RECORDING 5V
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ
FG1 IN	FG1 PULSE INPUT
FG2 IN	FG2 PULSE INPUT
FILTER ADJUSTMEN	FILTER ADJUSTMENT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ
FLY ON [H]	FLYING ERASE E HEAD ON Ⓗ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ
FM MUT [H]	FM AUDIO MUTE Ⓗ
FM MUTE [H]	FM AUDIO MUTE Ⓗ
FM OUT [L]	FM OUTPUT (L)
FM OUT [R]	FM OUTPUT (R)
FM PACK OUT [L]	FM PACK OUTPUT (L)
FM PACK OUT [R]	FM PACK OUTPUT (R)
FM/BS SEL [L]	FM/BS SELECT (L)
FM/BS SEL [R]	FM/BS SELECT (R)
FS. CLK	FS CLOCK
FUL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E [H]	FULL ERASE HEAD ON Ⓗ
FULL. E. 12V	FULL ERASE 12V
GND [A]	GND (ANALOGUE)
GND [TU]	GND (TUNER)
GND/N. SW. 12V	GND/NON SW 12V
H. SYNC	HORIZONTAL SYNC
H. AMP. SW	HEAD AMP SW PULSE
H. P <R>	HEAD PHONE (R)
H. P <L>	HEAD PHONE (L)
H. P GND	HEAD PHONE GND
H. P OUT [L]	HEAD PHONE OUTPUT (L)
H. P OUT [R]	HEAD PHONE OUTPUT (R)
H. SW	HEAD SW PULSE
HEAD PHONE [L]	HEAD PHONE (L)
HEAD PHONE [R]	HEAD PHONE (R)
HEAD SW	HEAD SW
HEATER [+]	HEATER (+)
HEATER [−]	HEATER (−)
HSS	HORIZONTAL SYNC SIGNAL
HTR [+]	HEATER (+)
HTR [−]	HEATER (−)
I RFE	REFERENCE CURRENT
ICL	CONTROL AGC CIRCUIT
IF	INTERMEDIATE FREQUENCY
IN SELA1	INPUT SELECT A1 POSITION
IN SELA2	INPUT SELECT A2 POSITION
IN SELA3	INPUT SELECT A3 POSITION
INS L/R [L]	INSERT Lch/Rch Ⓛ
INS. [H]	INSERT Ⓗ
INSEL A1	INPUT SELECT A1 POSITION
INSEL A2	INPUT SELECT A2 POSITION
INSERT	INSERT
INSERT [H]	INSERT Ⓗ
IO CS	INPUT/OUTPUT CHIP SELECT
JOG1	JOG1
JOG S3 LED/FOWRD	JOG LED/FORWARD LED
JOG/F. LED	JOG LED/FORWARD LED
JSB [H]	JSB Ⓗ
JST. CLCK	JUST CLOCK
JST. CLK	JUST CLOCK
JST. CLOCK	JUST CLOCK
L. OUT	Lch OUTPUT
L. CH [H]	Lch Ⓗ
L. CH [L]	Lch Ⓛ
LED (MAIN)	LED (MAIN)
LED (STEREO)	LED (STEREO)
LED (SUB)	LED (SUB)
LED CKL	LED SERIAL CLOCK
LED CKS	LED SERIAL CLOCK
LED DATA	LED SERIAL DATA
LINE IN 1 [L]	LINE INPUT 1 (L)
LINE IN 1 [R]	LINE INPUT 1 (R)
LINE IN 2 [L]	LINE INPUT 2 (L)
LINE IN 2 [R]	LINE INPUT 2 (R)
LINE IN V	LINE INPUT VIDEO
LINE IN [L]	LINE INPUT (L)
LINE IN [R]	LINE INPUT (R)
LINE OUT [L]	LINE OUTPUT (L)
LINE OUT [R]	LINE OUTPUT (R)
LP [H]	LP Ⓗ

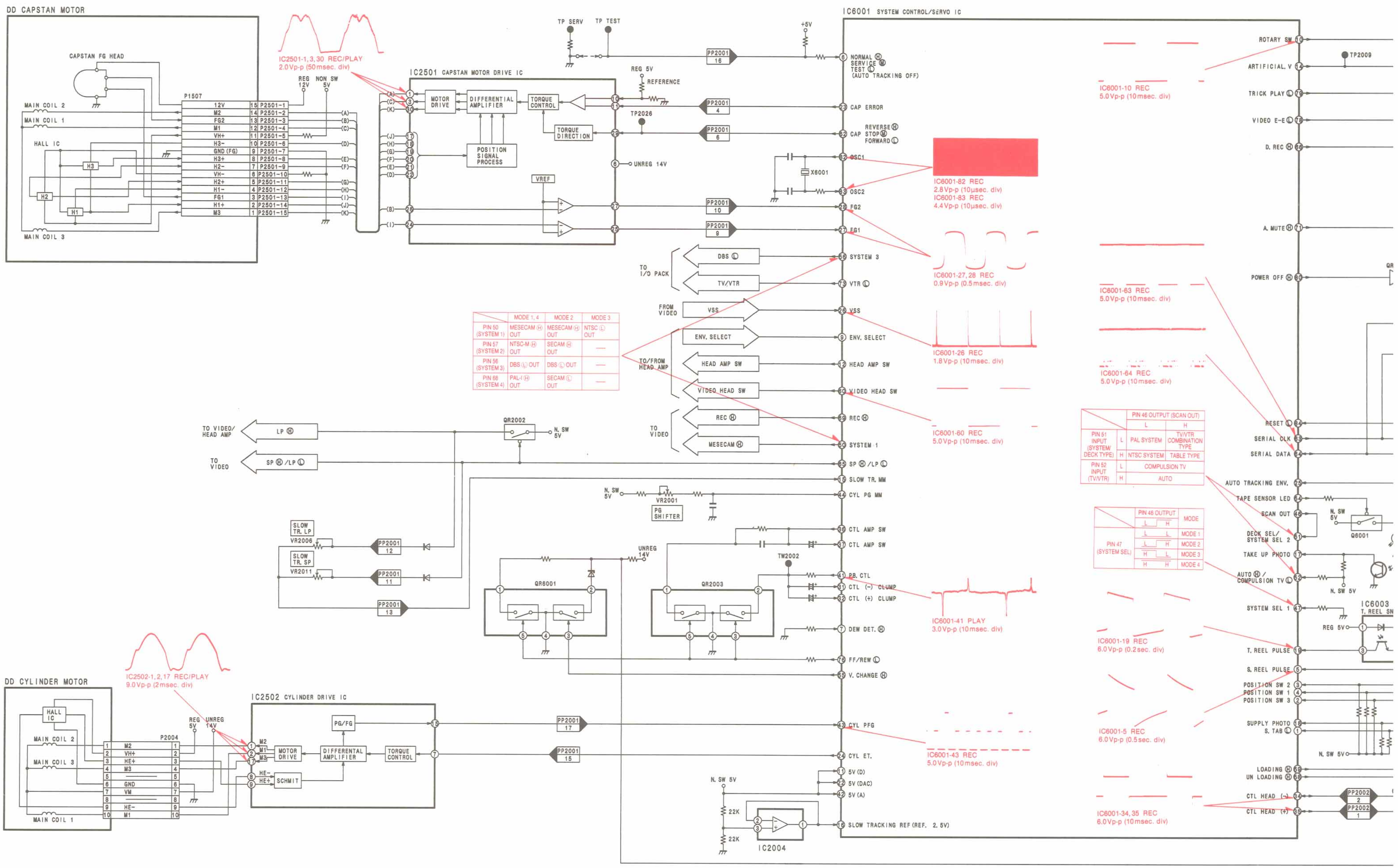
ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [−]	SOLENOID (−)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL: ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	RERERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

LPTRI [L]	LP TRICK PLAY Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING
M GND	MOTOR GND
M REG	MOTOR REGULATOR
MAIN OUT	MAIN OUTPUT
MAIN [L]	MAIN Ⓛ
MAIN/MONO	MAIN/MONAURAL
MAX IN	MAXIMAM INPUT
MES [H]	MESECAM Ⓗ
MESE [H]	MESECAM Ⓗ
MESE [L]	MESECAM Ⓛ
METER 5V	LEVEL METER 5V
METER [L]	LEVEL METER (L)
METER [R]	LEVEL METER (R)
METER. L/AVS	LEVEL METER (L)
METER. R/AVC	LEVEL METER (R)
MI/BI [L]	MIX Ⓗ/BILIGUAL
MIC GND	MIC GND
MIC IN	MIC INPUT
MIC IN [L]	MIC INPUT (L)
MIC IN [R]	MIC INPUT (R)
MIC [H]	MIC Ⓗ
MIX [H]	MIX Ⓗ
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ
MODE SEL	AUDIO MODE SELECT
MODE SW	AUDIO MODE SW
MODE. S. IN	AUDIO MODE SELECT INPUT
MODE. S. OUT	AUDIO MODE SELECT OUTPUT
MONO [H]	MONAURAL Ⓗ
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ
MONO2 [L]	MONAURAL 2
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)
MOTOR GND	MOTOR GND
MUTE	MUTE
N. A. REC [L]	NORMAL AUDIO RECORDING
N. SW 12V	NON SW 12V
N. SW. 5. DET	NON SW 5V DETECT
NICAM	NICAM
NICAM [L]	NICAM Ⓛ
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ
NORMAL [H]	NORMAL Ⓗ
NR BIAS	NR BIAS
NTSC [L]	NTSC Ⓛ
OCH	CONTROL AGC CIRCUIT
OUT	OUTPUT
P-OFF [H]	POWER OFF Ⓗ
P-OFF [L]	POWER OFF Ⓛ
P. FAIL	POWER FAILURE DETECT
P. OFF [H]	POWER OFF Ⓗ
P. OFF [L]	POWER OFF Ⓛ
PAL [H]	PAL Ⓗ
PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
PB ADJ OUT	PLAYBACK ADJUST OUTPUT
PB OUT	PLAYBACK OUTPUT
PB. H	PLAYBACK Ⓗ
PFG	PG/FG
PHOTSN +B	PHOTO SENSOR +B
PICT. CNT	PICTURE CONTROL
PLAY LED/RVS LED	PLAY LED/REVERSE LED
PLAY. PO	PLAY POSITION
PLAY/R. LED	PLAY LED/REVERSE LED
PLY/DEW	PLAY/DEW Ⓗ
POWER OFF [L]	POWER OFF Ⓛ
PREROLL [H]	PREROLL Ⓗ
PWRFAIL	POWER FAILURE DETECT
R. CH [H]	Rch Ⓗ
R. CH [L]	Rch Ⓛ
R. ST	RESET
R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
RCH [H]	Rch Ⓗ
REC 12V	RECORDING 12V
REC CHROMA	RECORDING CHROMINANCE SIGNAL
REC H	RECORDING Ⓗ
REC IN	RECORDING INPUT
REC OUT [L]	RECORDING OUTPUT Ⓛ
REC START	RECORDING START
REC VR [C]	RECORDING VOLUME (COMMON)
REC VR [L]	RECORDING VOLUME (L)
REC VR [R]	RECORDING VOLUME (R)
REC Y	RECORDING LUMINANCE SIGNAL
REC [H]	RECORDING Ⓗ
REC. C	RECORDING CHROMINANCE SIGNAL
REC. Y	RECORDING LUMINANCE SIGNAL
REC/EE CTL	RECORDING/EE CONTROL
REEL-T	REEL PULSE (TAKE-UP)
REEL-S	REEL PULSE (SUPPLY)
REGULATOR FILTER	REGULATOR FILTER
RESET	RESET
REV M F/R	REVIEW MOTOR FORWARD/REVERSE
REV M V1	REVIEW MOTOR V1
REV M V2	REVIEW MOTOR V2
REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
REV MOTOR V1	REVIEW MOROR V1
REV MOTOR V2	REVIEW MOTOR V2
REV MOTOR [+]	REVIEW MOTOR (+)
REV MOTOR [−]	REVIEW MOTOR (−)
REV. M. GND	REVIEW MOTOR GND
RF. CHROMA	RF CHROMINANCE SIGNAL
RF OUT	RF OUTPUT
RF Y	RF LUMINANCE SIGNAL
RF. Y. IN	RF LUMINANCE SIGNAL INPUT
RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [−]	SOLENOID (−)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE

T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	RERERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

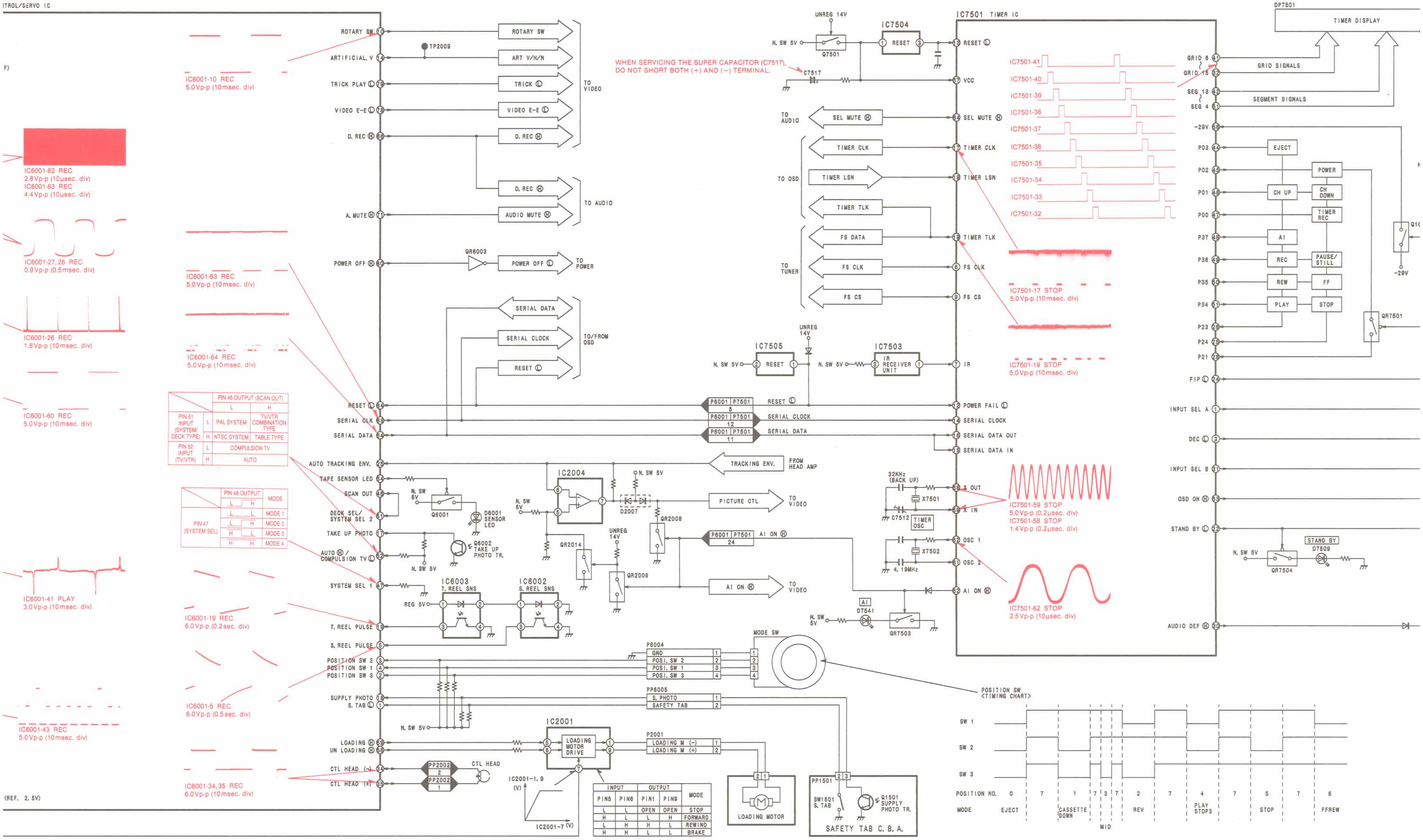
3-2. SYSTEM CONTROL & SERVO BLOCK DIAGRAM


DD CAPSTAN MOTOR
CAPSTAN FG HEAD
MAIN COIL 2
MAIN COIL 1
HALL IC
H1
H2
H3
MAIN COIL 3
P1507
12V
M2
FG2
M1
VH+
H3-
GND (FG)
H3+
H2-
VH-
H2+
H1-
FG1
H1+
M3
P2501-1
P2501-2
P2501-3
P2501-4
P2501-5
P2501-6
P2501-7
P2501-8
P2501-9
P2501-10
P2501-11
P2501-12
P2501-13
P2501-14
P2501-15
IC2501-1, 3, 30 REC/PLAY
2.0Vp-p (50msec. div)
REG 12V
NON SW 5V
IC2501 CAPSTAN MOTOR DRIVE IC
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL
TORQUE DIRECTION
POSITION SIGNAL PROCESS
VREF
TP SERV
TP TEST
REG 5V
REFERENCE
TP2026
UNREG 14V
+5V
PP2001
IC6001 SYSTEM CONTROL/SERVO IC
NORMAL Ⓗ
SERVICE Ⓜ
TEST Ⓛ
(AUTO TRACKING OFF)
CAP ERROR
REVERSE Ⓗ
CAP STOP Ⓜ
FORWARD Ⓛ
OSC1
X6001
OSC2
FG2
FG1
SYSTEM 3
VTR Ⓛ
VSS
ENV. SELECT
HEAD AMP SW
VIDEO HEAD SW
REC Ⓗ
SYSTEM 1
SP Ⓗ/LP Ⓛ
SLOW TR. MM
CYL PG MM
CTL AMP SW
PB. CTL
CTL (-) CLUMP
CTL (+) CLUMP
DEW DET. Ⓗ
FF/REW Ⓛ
V. CHANGE Ⓗ
CYL PFG
CYL ET.
5V (D)
5V (DAC)
5V (A)
SLOW TRACKING REF (REF. 2. 5V)
TO I/O PACK
DBS Ⓛ
TV/VTR
FROM VIDEO
VSS
ENV. SELECT
TO/FROM HEAD AMP
HEAD AMP SW
VIDEO HEAD SW
TO VIDEO
REC Ⓗ
MESECAM Ⓗ
TO VIDEO/HEAD AMP
LP Ⓗ
TO VIDEO
SP Ⓗ/LP Ⓛ
QR2002
N. SW 5V
VR2001
PG SHIFTER
SLOW TR. LP
VR2006
SLOW TR. SP
VR2011
UNREG 14V
TW2002
QR6001
QR2003
N. SW 5V
22K
22K
IC2004
IC6001-82 REC
2.8Vp-p (10μsec. div)
IC6001-83 REC
4.4Vp-p (10μsec. div)
IC6001-27, 28 REC
0.9Vp-p (0.5msec. div)
IC6001-26 REC
1.8Vp-p (10msec. div)
IC6001-60 REC
5.0Vp-p (10msec. div)
IC6001-41 PLAY
3.0Vp-p (10msec. div)
IC6001-43 REC
5.0Vp-p (10msec. div)
IC6001-10 REC
5.0Vp-p (10msec. div)
IC6001-63 REC
5.0Vp-p (10msec. div)
IC6001-64 REC
5.0Vp-p (10msec. div)
IC6001-19 REC
6.0Vp-p (0.2sec. div)
IC6001-5 REC
6.0Vp-p (0.5sec. div)
IC6001-34, 35 REC
6.0Vp-p (10msec. div)
ROTARY SW
ARTIFICIAL. V
TRICK PLAY Ⓛ
VIDEO E-E Ⓛ
D. REC Ⓗ
A. MUTE Ⓗ
POWER OFF Ⓗ
RESET Ⓛ
SERIAL CLK
SERIAL DATA
AUTO TRACKING ENV.
TAPE SENSOR LED
SCAN OUT
DECK SEL/SYSTEM SEL 2
TAKE UP PHOTO
AUTO Ⓗ/COMPULSION TV Ⓛ
SYSTEM SEL 1
T. REEL PULSE
S. REEL PULSE
POSITION SW 2
POSITION SW 1
POSITION SW 3
SUPPLY PHOTO
S. TAB Ⓛ
LOADING Ⓗ
UN LOADING Ⓗ
CTL HEAD (-)
CTL HEAD (+)
TP2009
N. SW 5V
Q6001
IC6003
T. REEL SN
REG 5V
PP2002
DD CYLINDER MOTOR
HALL IC
MAIN COIL 2
MAIN COIL 3
MAIN COIL 1
P2004
M2
VH+
HE+
M3
GND
VM
HE-
M1
IC2502-1, 2, 17 REC/PLAY
9.0Vp-p (2msec. div)
REG 5V
UNREG 14V
IC2502 CYLINDER DRIVE IC
MOTOR DRIVE
SCHMIT
PG/FG
DIFFERENTIAL AMPLIFIER
TORQUE CONTROL

	MODE 1, 4	MODE 2	MODE 3
PIN 50 (SYSTEM 1)	MESECAM Ⓗ OUT	MESECAM Ⓗ OUT	NTSC Ⓛ OUT
PIN 57 (SYSTEM 2)	NTSC-M Ⓗ OUT	SECAM Ⓗ OUT	—
PIN 56 (SYSTEM 3)	DBS Ⓛ OUT	DBS Ⓛ OUT	—
PIN 68 (SYSTEM 4)	PAL-I Ⓗ OUT	SECAM Ⓛ OUT	—

		PIN 46 OUTPUT (SCAN OUT)	
		L	H
PIN 51 INPUT (SYSTEM/ DECK TYPE)	L	PAL SYSTEM	TV/VTR COMBINATION TYPE
	H	NTSC SYSTEM	TABLE TYPE
PIN 52 INPUT (TV/VTR)	L	COMPULSION TV	
	H	AUTO	

	PIN 46 OUTPUT L H	MODE
PIN 47 (SYSTEM SEL)	L L	MODE 1
	L H	MODE 2
	H L	MODE 3
	H H	MODE 4

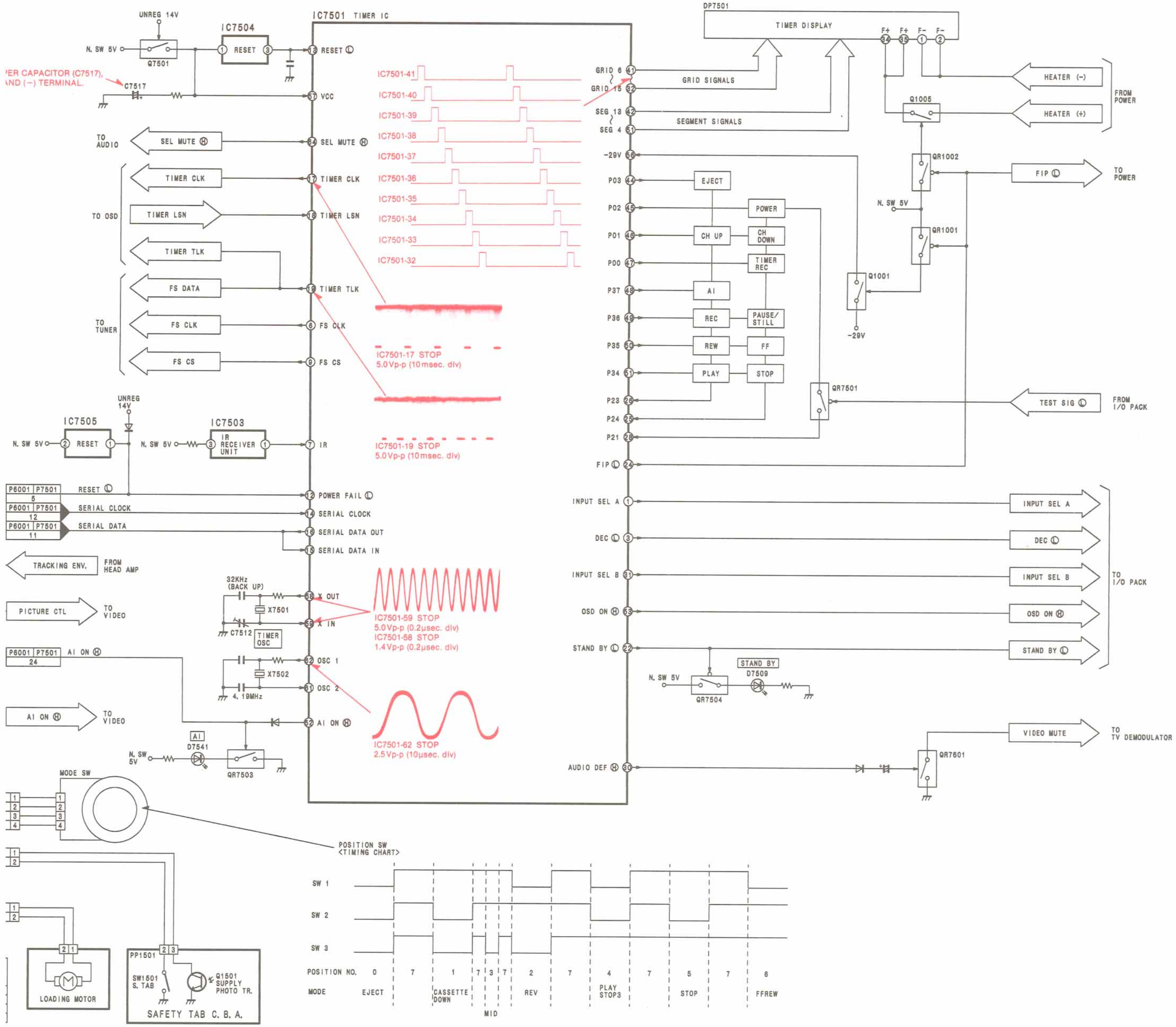


ITROL/SERVO IC
F)
(REF. 2.5V)
ROTARY SW 16
ARTIFICIAL V 14
TRICK PLAY Ⓛ 79
VIDEO E-E Ⓛ 78
D. REC Ⓗ 66
A. MUTE Ⓗ 71
POWER OFF Ⓗ 80
RESET Ⓛ 84
SERIAL CLK 83
SERIAL DATA 84
AUTO TRACKING ENV. 25
TAPE SENSOR LED 54
SCAN OUT 46
DECK SEL/SYSTEM SEL 2 51
TAKE UP PHOTO 17
AUTO Ⓗ / COMPULSION TV Ⓛ 52
SYSTEM SEL 1 47
T. REEL PULSE 10
S. REEL PULSE 5
POSITION SW 2 3
POSITION SW 1 4
POSITION SW 3 2
SUPPLY PHOTO 18
S. TAB Ⓛ 1
LOADING Ⓗ 59
UN LOADING Ⓗ 58
CTL HEAD (−) 34
CTL HEAD (+) 35
TP2009
ROTARY SW
ART V/H/N
TRICK Ⓛ
VIDEO E-E Ⓛ
D. REC Ⓗ
TO VIDEO
D. REC Ⓗ
AUDIO MUTE Ⓗ
TO AUDIO
QR6003
POWER OFF Ⓛ
TO POWER
SERIAL DATA
SERIAL CLOCK
RESET Ⓛ
TO/FROM OSD
IC6001-10 REC
5.0Vp-p (10msec. div)
IC6001-82 REC
2.8Vp-p (10μsec. div)
IC6001-83 REC
4.4Vp-p (10μsec. div)
IC6001-27, 28 REC
0.9Vp-p (0.5msec. div)
IC6001-63 REC
5.0Vp-p (10msec. div)
IC6001-26 REC
1.8Vp-p (10msec. div)
IC6001-64 REC
5.0Vp-p (10msec. div)
IC6001-60 REC
5.0Vp-p (10msec. div)
IC6001-41 PLAY
3.0Vp-p (10msec. div)
IC6001-19 REC
6.0Vp-p (0.2sec. div)
IC6001-5 REC
6.0Vp-p (0.5sec. div)
IC6001-43 REC
5.0Vp-p (10msec. div)
IC6001-34, 35 REC
6.0Vp-p (10msec. div)
N. SW 5V
Q6001
D6001 SENSOR LED
Q6002 TAKE UP PHOTO TR.
IC2004
N. SW 5V
D2007
QR2008
QR2014
UNREG 14V
QR2009
TRACKING ENV.
FROM HEAD AMP
PICTURE CTL
TO VIDEO
AI ON Ⓗ
TO VIDEO
P6001 P7501 5
P6001 P7501 12
P6001 P7501 11
P6001 P7501 24
RESET Ⓛ
SERIAL CLOCK
SERIAL DATA
AI ON Ⓗ
IC6003 T. REEL SNS
IC6002 S. REEL SNS
REG 5V
P6004
GND
POSI. SW 2
POSI. SW 1
POSI. SW 3
MODE SW
PP6005
S. PHOTO
SAFETY TAB
IC2001
LOADING MOTOR DRIVE
P2001
LOADING M (−)
LOADING M (+)
PP2002
CTL HEAD
IC2001-1, 9 (V)
IC2001-7 (V)
LOADING MOTOR
PP1501
SW1501 S. TAB
Q1501 SUPPLY PHOTO TR.
SAFETY TAB C. B. A.
UNREG 14V
N. SW 5V
Q7501
WHEN SERVICING THE SUPER CAPACITOR (C7517), DO NOT SHORT BOTH (+) AND (−) TERMINAL.
C7517
IC7504
RESET
TO AUDIO
SEL MUTE Ⓗ
TIMER CLK
TO OSD
TIMER LSN
TIMER TLK
FS DATA
TO TUNER
FS CLK
FS CS
UNREG 14V
IC7505
RESET
IC7503
IR RECEIVER UNIT
32KHz (BACK UP)
X7501
C7512
TIMER OSC
X7502
4. 19MHz
AI
D7541
N. SW 5V
QR7503
IC7501 TIMER IC
13 RESET Ⓛ
57 VCC
54 SEL MUTE Ⓗ
17 TIMER CLK
18 TIMER LSN
19 TIMER TLK
6 FS CLK
9 FS CS
7 IR
12 POWER FAIL Ⓛ
14 SERIAL CLOCK
16 SERIAL DATA OUT
15 SERIAL DATA IN
58 X OUT
59 X IN
62 OSC 1
61 OSC 2
52 AI ON Ⓗ
IC7501-41
IC7501-40
IC7501-39
IC7501-38
IC7501-37
IC7501-36
IC7501-35
IC7501-34
IC7501-33
IC7501-32
IC7501-17 STOP
5.0Vp-p (10msec. div)
IC7501-19 STOP
5.0Vp-p (10msec. div)
IC7501-59 STOP
5.0Vp-p (0.2μsec. div)
IC7501-58 STOP
1.4Vp-p (0.2μsec. div)
IC7501-62 STOP
2.5Vp-p (10μsec. div)
GRID 6 41
GRID 15 32
SEG 13 42
SEG 4 51
−29V 56
P03 44
P02 45
P01 46
P00 47
P37 48
P36 49
P35 50
P34 51
P23 26
P24 25
P21 28
FIP Ⓛ 24
INPUT SEL A 1
DEC Ⓛ 3
INPUT SEL B 31
OSD ON Ⓗ 63
STAND BY Ⓛ 22
AUDIO DEF Ⓗ 30
DP7501
TIMER DISPLAY
GRID SIGNALS
SEGMENT SIGNALS
EJECT
POWER
CH UP
CH DOWN
TIMER REC
AI
REC
PAUSE/STILL
REW
FF
PLAY
STOP
−29V
QR7501
Q10
N. SW 5V
QR7504
STAND BY
D7509
POSITION SW <TIMING CHART>
SW 1
SW 2
SW 3
POSITION NO.
0
7
1
7
3
7
2
7
4
7
5
7
6
MODE
EJECT
CASSETTE DOWN
MID
REV
PLAY STOP3
STOP
FFREW

		PIN 46 OUTPUT (SCAN OUT)	
		L	H
PIN 51 INPUT (SYSTEM/DECK TYPE)	L	PAL SYSTEM	TV/VTR COMBINATION TYPE
	H	NTSC SYSTEM	TABLE TYPE
PIN 52 INPUT (TV/VTR)	L	COMPULSION TV	
	H	AUTO	

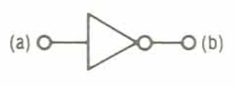
	PIN 46 OUTPUT		MODE
	L	H	
PIN 47 (SYSTEM SEL)	L	L	MODE 1
	L	H	MODE 2
	H	L	MODE 3
	H	H	MODE 4

INPUT		OUTPUT		MODE
PIN5	PIN6	PIN1	PIN9	
L	L	OPEN	OPEN	STOP
H	L	L	H	FORWARD
L	H	H	L	REWIND
H	H	L	L	BRAKE


UNREG 14V
N. SW 5V
Q7501
IC7504
RESET
ER CAPACITOR (C7517),
ND (−) TERMINAL.
C7517
IC7501 TIMER IC
RESET Ⓛ
VCC
TO AUDIO
SEL MUTE Ⓗ
TO OSD
TIMER CLK
TIMER LSN
TIMER TLK
TO TUNER
FS DATA
FS CLK
FS CS
UNREG 14V
IC7505
RESET
IC7503
IR RECEIVER UNIT
IR
P6001 P7501
RESET Ⓛ
SERIAL CLOCK
SERIAL DATA
POWER FAIL Ⓛ
SERIAL DATA OUT
SERIAL DATA IN
TRACKING ENV.
FROM HEAD AMP
PICTURE CTL
TO VIDEO
32KHz (BACK UP)
X7501
C7512
TIMER OSC
X OUT
X IN
AI ON Ⓗ
X7502
4.19MHz
OSC 1
OSC 2
TO VIDEO
N. SW 5V
AI
D7541
QR7503
MODE SW
IC7501-41
IC7501-40
IC7501-39
IC7501-38
IC7501-37
IC7501-36
IC7501-35
IC7501-34
IC7501-33
IC7501-32
IC7501-17 STOP
5.0Vp-p (10msec. div)
IC7501-19 STOP
5.0Vp-p (10msec. div)
IC7501-59 STOP
5.0Vp-p (0.2μsec. div)
IC7501-58 STOP
1.4Vp-p (0.2μsec. div)
IC7501-62 STOP
2.5Vp-p (10μsec. div)
DP7501
TIMER DISPLAY
F+
F+
F−
F−
GRID 6
GRID 15
GRID SIGNALS
SEG 13
SEG 4
SEGMENT SIGNALS
HEATER (−)
HEATER (+)
FROM POWER
Q1005
QR1002
FIP Ⓛ
TO POWER
N. SW 5V
QR1001
Q1001
−29V
P03
P02
P01
P00
P37
P36
P35
P34
P23
P24
P21
EJECT
POWER
CH UP
CH DOWN
TIMER REC
AI
REC
PAUSE/STILL
REW
FF
PLAY
STOP
QR7501
TEST SIG Ⓛ
FROM I/O PACK
FIP Ⓛ
INPUT SEL A
DEC Ⓛ
INPUT SEL B
OSD ON Ⓗ
STAND BY Ⓛ
TO I/O PACK
N. SW 5V
QR7504
STAND BY
D7509
VIDEO MUTE
TO TV DEMODULATOR
AUDIO DEF Ⓗ
QR7601
LOADING MOTOR
PP1501
SW1501 S. TAB
Q1501 SUPPLY PHOTO TR.
SAFETY TAB C. B. A.
POSITION SW <TIMING CHART>
SW 1
SW 2
SW 3
POSITION NO.
0
7
1
7
3
7
2
7
4
7
5
7
6
MODE
EJECT
CASSETTE DOWN
MID
REV
PLAY STOP3
STOP
FFREW

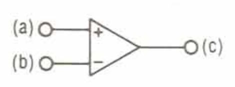
SYMBOL	TRUTH VALUE TABLE

INVERTER



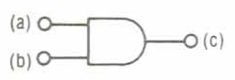
IN	(a)	H	L
OUT	(b)	L	H

COMPARTOR



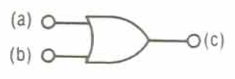
IN	(a) (b)	(a) > (b)	(a) < (b)
OUT	(c)	H	L

AND CIRCUIT



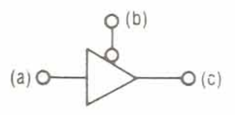
IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

OR CIRCUIT



IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

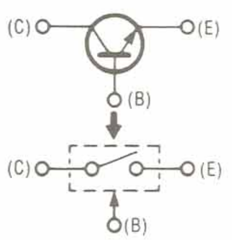
THREE STATES BUFFER



IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

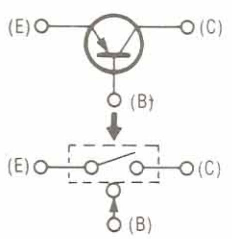
※ High Impedance

TR. SW (NPN TYPE)



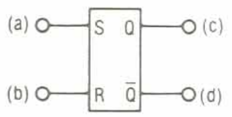
BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)



BASE	H	L
TR. SW	OFF	ON

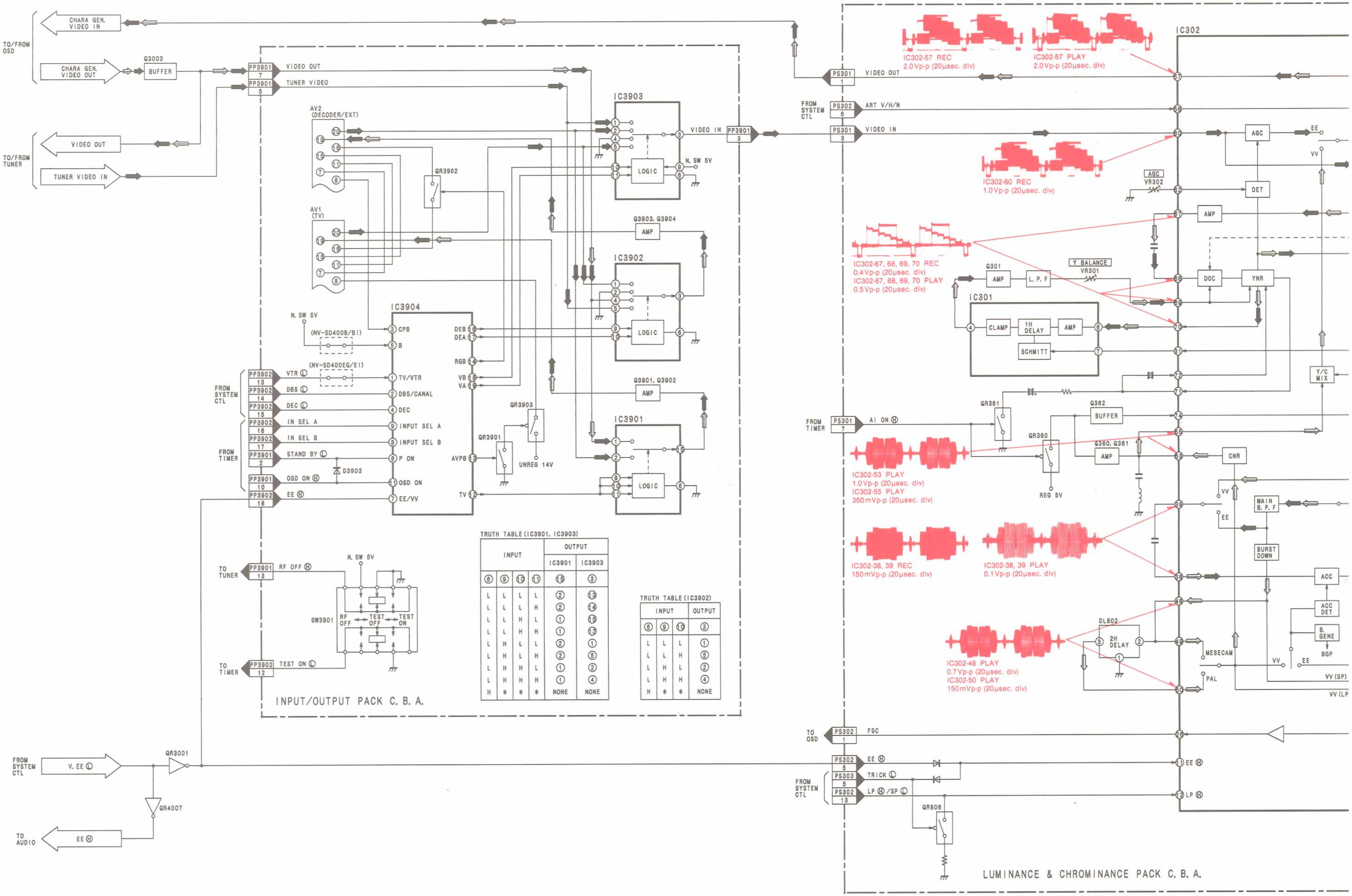
R-S TYPE FLIP-FLOP



IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

※ Initial condition is maintained.
◆ Initial condition is reversed.

3-3. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

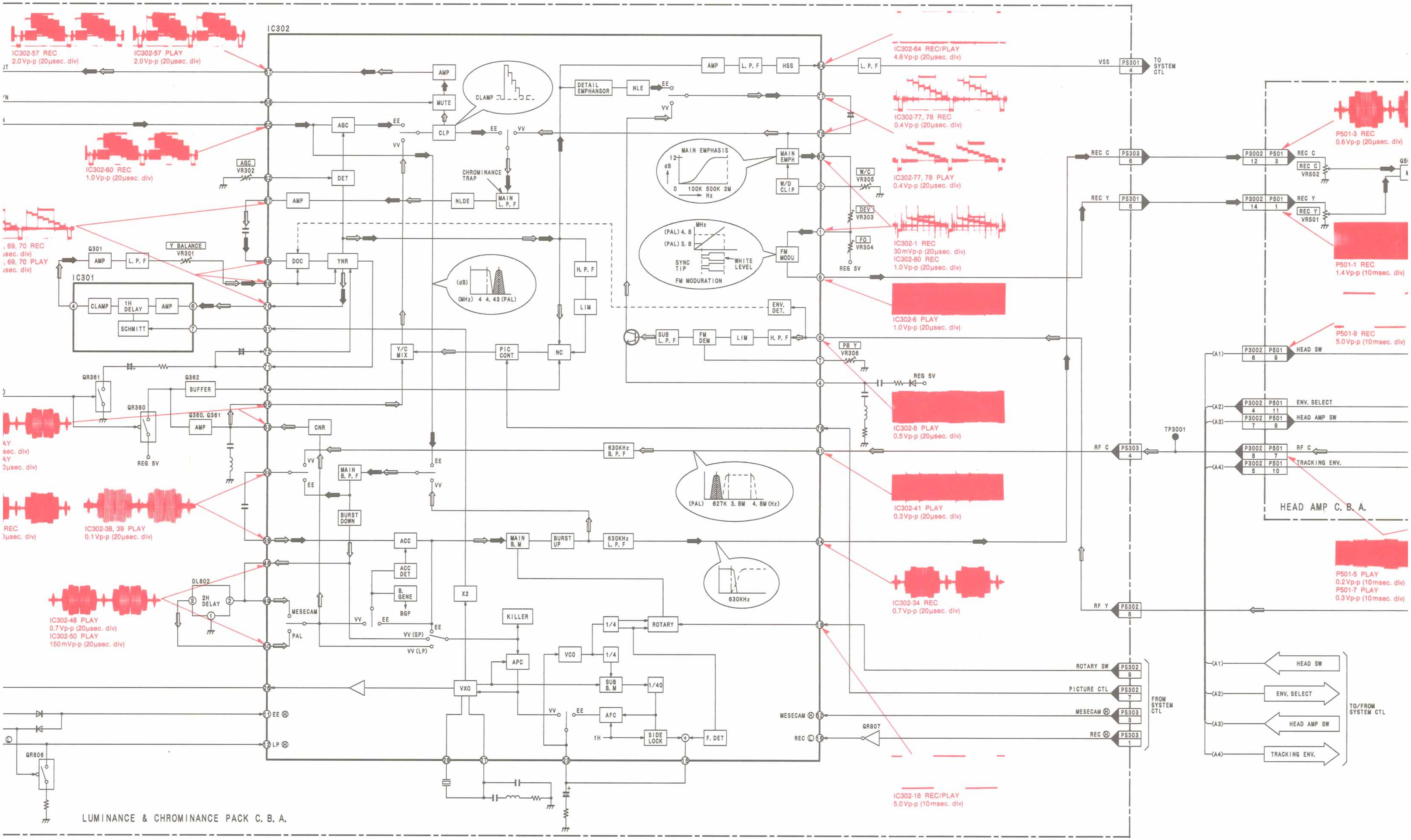

TO/FROM OSD
CHARA GEN. VIDEO IN
CHARA GEN. VIDEO OUT
Q3003
BUFFER
TO/FROM TUNER
VIDEO OUT
TUNER VIDEO IN
PP3901 7
PP3901 5
VIDEO OUT
TUNER VIDEO
AV2 (DECODER/EXT)
AV1 (TV)
QR3902
IC3903
IC3902
IC3901
IC3904
LOGIC
VIDEO IN
PP3901 3
N. SW 5V
Q3903, Q3904
Q3901, Q3902
AMP
N. SW 5V
(NV-SD400B/B1)
(NV-SD400EG/E1)
CPB
B
TV/VTR
DBS/CANAL
DEC
INPUT SEL A
INPUT SEL B
P ON
OSD ON
EE/VV
DEB
DEA
RGB
VB
VA
AVPB
TV
QR3903
QR3901
UNREG 14V
D3903
FROM SYSTEM CTL
FROM TIMER
PP3902 13 VTR Ⓛ
PP3902 14 DBS Ⓛ
PP3902 15 DEC Ⓛ
PP3902 16 IN SEL A
PP3902 17 IN SEL B
PP3901 2 STAND BY Ⓛ
PP3901 10 OSD ON Ⓗ
PP3902 18 EE Ⓗ
TO TUNER
PP3901 13 RF OFF Ⓗ
SW3901
RF OFF
TEST OFF
TEST ON
TO TIMER
PP3902 12 TEST ON Ⓛ
INPUT/OUTPUT PACK C. B. A.
FROM SYSTEM CTL
V. EE Ⓛ
QR3001
QR4007
TO AUDIO
EE Ⓗ
IC302-57 REC
2.0Vp-p (20µsec. div)
IC302-57 PLAY
2.0Vp-p (20µsec. div)
IC302
PS301 1 VIDEO OUT
FROM SYSTEM CTL
PS302 6 ART V/H/N
PS301 3 VIDEO IN
IC302-60 REC
1.0Vp-p (20µsec. div)
AGC
VR302
AGC
DET
AMP
EE
VV
IC302-67, 68, 69, 70 REC
0.4Vp-p (20µsec. div)
IC302-67, 68, 69, 70 PLAY
0.5Vp-p (20µsec. div)
Q301
AMP
L. P. F
Y BALANCE
VR301
DOC
YNR
IC301
CLAMP
1H DELAY
AMP
SCHMITT
Y/C MIX
QR361
Q362
BUFFER
QR360
Q360, Q361
AMP
REG 5V
CNR
FROM TIMER
PS301 7 AI ON Ⓗ
IC302-53 PLAY
1.0Vp-p (20µsec. div)
IC302-55 PLAY
350mVp-p (20µsec. div)
IC302-38, 39 REC
150mVp-p (20µsec. div)
IC302-38, 39 PLAY
0.1Vp-p (20µsec. div)
MAIN B. P. F
BURST DOWN
ACC
ACC DET
B. GENE
BGP
DL802
2H DELAY
IC302-48 PLAY
0.7Vp-p (20µsec. div)
IC302-50 PLAY
150mVp-p (20µsec. div)
MESECAM
PAL
VV (SP)
VV (LP
TO OSD
PS302 1 FSC
FROM SYSTEM CTL
PS302 5 EE Ⓗ
PS303 5 TRICK Ⓛ
PS302 13 LP Ⓗ/SP Ⓛ
QR806
EE Ⓗ
LP Ⓗ
LUMINANCE & CHROMINANCE PACK C. B. A.

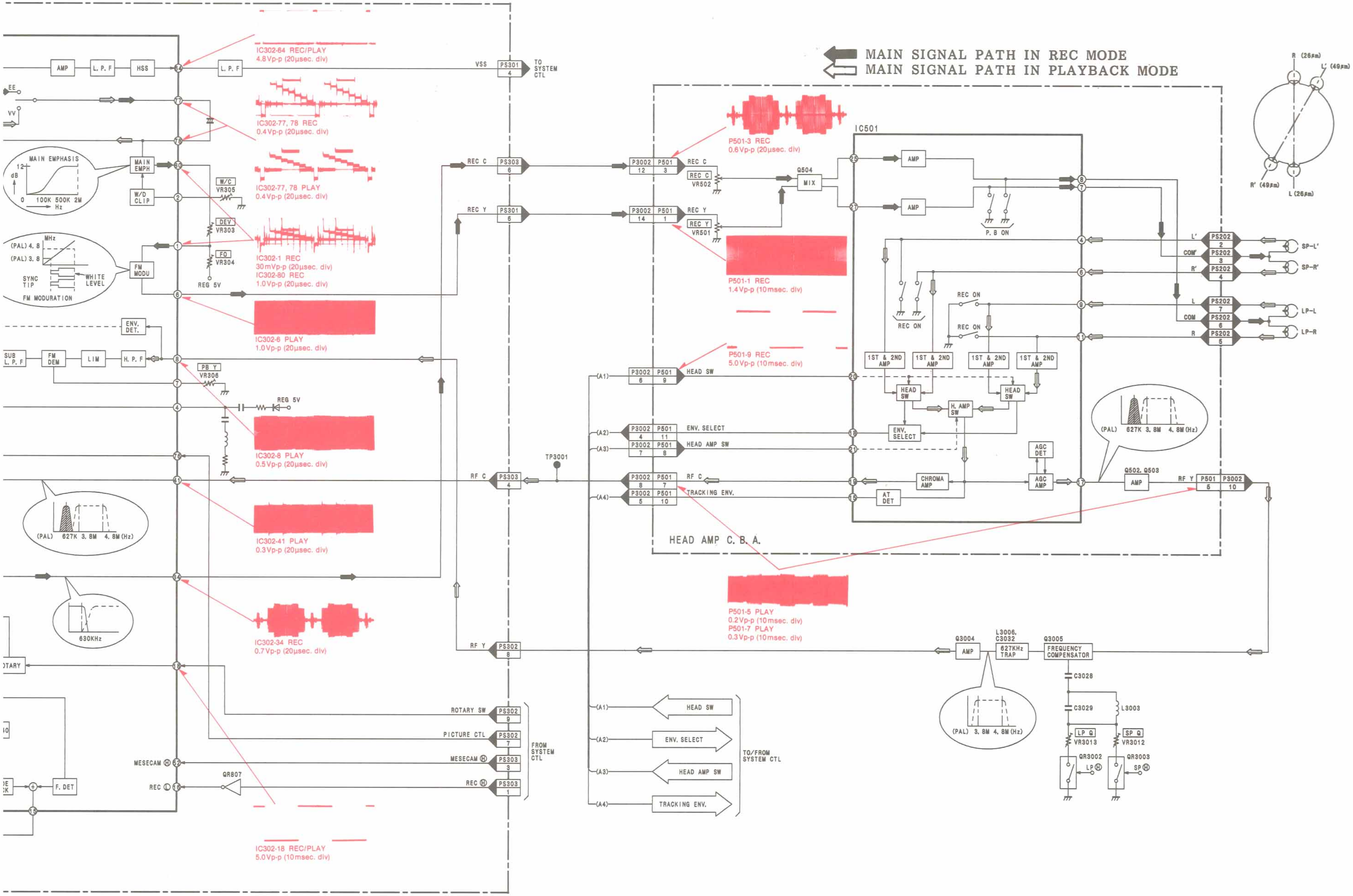
TRUTH TABLE (IC3901, IC3903)

INPUT				OUTPUT	
				IC3901	IC3903
⑥	⑨	⑩	⑪	⑮	③
L	L	L	L	②	⑬
L	L	L	H	②	⑭
L	L	H	L	①	⑮
L	L	H	H	①	⑫
L	H	L	L	②	①
L	H	L	H	②	⑤
L	H	H	L	①	②
L	H	H	H	①	④
H	*	*	*	NONE	NONE

TRUTH TABLE (IC3902)

INPUT			OUTPUT
⑥	⑨	⑩	③
L	L	L	①
L	L	H	⑤
L	H	L	②
L	H	H	④
H	*	*	NONE


IC302
IC302-57 REC 2.0Vp-p (20μsec. div)
IC302-57 PLAY 2.0Vp-p (20μsec. div)
IC302-60 REC 1.0Vp-p (20μsec. div)
IC302-64 REC/PLAY 4.8Vp-p (20μsec. div)
IC302-77, 78 REC 0.4Vp-p (20μsec. div)
IC302-77, 78 PLAY 0.4Vp-p (20μsec. div)
IC302-1 REC 30mVp-p (20μsec. div)
IC302-80 REC 1.0Vp-p (20μsec. div)
IC302-6 PLAY 1.0Vp-p (20μsec. div)
IC302-8 PLAY 0.5Vp-p (20μsec. div)
IC302-41 PLAY 0.3Vp-p (20μsec. div)
IC302-34 REC 0.7Vp-p (20μsec. div)
IC302-38, 39 PLAY 0.1Vp-p (20μsec. div)
IC302-48 PLAY 0.7Vp-p (20μsec. div)
IC302-50 PLAY 150mVp-p (20μsec. div)
IC302-18 REC/PLAY 5.0Vp-p (10msec. div)
P501-3 REC 0.6Vp-p (20μsec. div)
P501-1 REC 1.4Vp-p (10msec. div)
P501-9 REC 5.0Vp-p (10msec. div)
P501-5 PLAY 0.2Vp-p (10msec. div)
P501-7 PLAY 0.3Vp-p (10msec. div)
AMP
MUTE
CLP
CLAMP
AGC
DET
EE
VV
AGC VR302
Y BALANCE VR301
Q301
AMP
L. P. F
IC301
CLAMP
1H DELAY
SCHMITT
DOC
YNR
CHROMINANCE TRAP
MAIN L. P. F
NLDE
DETAIL EMPHANSOR
NLE
HSS
MAIN EMPHASIS
dB
100K 500K 2M Hz
MAIN EMPH
W/D CLIP
W/C VR305
DEV VR303
FO VR304
REG 5V
(PAL) 4. 8
(PAL) 3. 8
MHz
SYNC TIP
WHITE LEVEL
FM MODURATION
FM MODU
(dB)
(MHz) 4 4. 43 (PAL)
H. P. F
LIM
ENV. DET.
SUB L. P. F
FM DEM
PB Y VR306
Y/C MIX
PIC CONT
NC
QR361
Q362
BUFFER
QR360
Q360, Q361
CNR
630KHz B. P. F
MAIN B. P. F
BURST DOWN
(PAL) 627K 3. 8M 4. 8M (Hz)
ACC
ACC DET
B. GENE
BGP
MAIN B. M
BURST UP
630KHz L. P. F
630KHz
DL802
2H DELAY
MESECAM
PAL
VV (SP)
VV (LP)
X2
KILLER
APC
VCO
VXO
1/4
ROTARY
SUB B. M
1/40
AFC
SIDE LOCK
F. DET
fH
EE Ⓗ
LP Ⓗ
QR806
QR807
MESECAM Ⓗ
REC Ⓛ
LUMINANCE & CHROMINANCE PACK C. B. A.
VSS
PS301
TO SYSTEM CTL
REC C
REC Y
PS303
P3002
P501
REC C VR502
REC Y VR501
HEAD SW
ENV. SELECT
HEAD AMP SW
RF C
TRACKING ENV.
TP3001
RF Y
PS302
HEAD AMP C. B. A.
ROTARY SW
PICTURE CTL
FROM SYSTEM CTL
TO/FROM SYSTEM CTL
(A1)
(A2)
(A3)
(A4)


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
IC302-64 REC/PLAY
4.8Vp-p (20μsec. div)
IC302-77, 78 REC
0.4Vp-p (20μsec. div)
IC302-77, 78 PLAY
0.4Vp-p (20μsec. div)
IC302-1 REC
30mVp-p (20μsec. div)
IC302-80 REC
1.0Vp-p (20μsec. div)
IC302-6 PLAY
1.0Vp-p (20μsec. div)
IC302-8 PLAY
0.5Vp-p (20μsec. div)
IC302-41 PLAY
0.3Vp-p (20μsec. div)
IC302-34 REC
0.7Vp-p (20μsec. div)
IC302-18 REC/PLAY
5.0Vp-p (10msec. div)
P501-3 REC
0.6Vp-p (20μsec. div)
P501-1 REC
1.4Vp-p (10msec. div)
P501-9 REC
5.0Vp-p (10msec. div)
P501-5 PLAY
0.2Vp-p (10msec. div)
P501-7 PLAY
0.3Vp-p (10msec. div)
AMP
L. P. F
HSS
L. P. F
VSS
PS301
TO SYSTEM CTL
EE
VV
MAIN EMPHASIS
12
dB
0
100K 500K 2M
Hz
MAIN EMPH
W/D CLIP
W/C
VR305
DEV
VR303
FO
VR304
REG 5V
MHz
(PAL) 4. 8
(PAL) 3. 8
SYNC TIP
WHITE LEVEL
FM MODURATION
FM MODU
ENV. DET.
SUB L. P. F
FM DEM
LIM
H. P. F
PB Y
VR306
REG 5V
(PAL) 627K 3. 8M 4. 8M (Hz)
630KHz
ROTARY
F. DET
MESECAM Ⓗ
REC Ⓛ
QR807
REC C
PS303
REC Y
PS301
RF C
PS303
TP3001
RF Y
PS302
ROTARY SW
PS302
PICTURE CTL
PS302
MESECAM Ⓗ
PS303
REC Ⓗ
PS303
FROM SYSTEM CTL
P3002
P501
REC C
REC C
VR502
REC Y
REC Y
VR501
Q504
MIX
IC501
AMP
AMP
P. B ON
HEAD SW
ENV. SELECT
HEAD AMP SW
RF C
TRACKING ENV.
(A1)
(A2)
(A3)
(A4)
1ST & 2ND AMP
HEAD SW
H. AMP SW
ENV. SELECT
REC ON
REC ON
REC ON
CHROMA AMP
AT DET
AGC DET
AGC AMP
HEAD AMP C. B. A.
Q502, Q503
AMP
RF Y
P501
P3002
PS202
L'
COM'
R'
L
COM
R
SP-L'
SP-R'
LP-L
LP-R
R (26μm)
L' (49μm)
R' (49μm)
L (26μm)
(PAL) 627K 3. 8M 4. 8M (Hz)
Q3004
AMP
L3006, C3032
627KHz TRAP
Q3005
FREQUENCY COMPENSATOR
C3028
C3029
L3003
LP Q
VR3013
SP Q
VR3012
QR3002
LP Ⓗ
QR3003
SP Ⓗ
(PAL) 3. 8M 4. 8M (Hz)
HEAD SW
ENV. SELECT
HEAD AMP SW
TRACKING ENV.
TO/FROM SYSTEM CTL

TRUTH TABLE

IC3904 INPUT									IC3904 OUTPUT								VIDEO OUTPUT RESULT				AUDIO OUTPUT RESULT						
POWER	AV2 SLCT	DEC SLCT	EE/VV	OSD ON	INPUT CH			AV2 PB	AV2 OUT SLCT		VTR IN SLCT		AV1 OUT SLCT	AV1 PB	RGB SW	FM INS	AV1 OUT	AV2 OUT	VTR IN	VTR OUT	AV1 OUT (L)	AV1 OUT (R)	AV2 OUT (L)	AV2 OUT (R)	AUDIO IN (L)	AUDIO IN (R)	AUDIO OUT
⑥	④	①	⑦	⑪	②	⑧	⑨	③	⑯	⑰	⑱	⑲	⑫	⑬	⑭	⑮	(AV1-⑲)	(AV2-⑲)	(PP3901-3)	(PP3901-7)	(AV1-③)	(AV1-①)	(AV2-③)	(AV2-①)	(PP3902-9)	(PP3902-10)	(PP3902-6)
OFF Ⓛ	----	----	----	----	--	--	--	L	L	L	L	L	L	L	L	L	AV2 IN	AV1 IN	TUNER	TUNER	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
								H	L	L	L	L	L	H	H	L	AV2 IN	AV1 IN	TUNER	TUNER	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
ON Ⓗ	VTR Ⓗ	----	EE Ⓗ	OFF Ⓛ	H	L	L	----	H	H	L	L	H	L	L	L	VTR OUT	VTR OUT	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	TUNER
					L	L	L	----	H	H	L	L	H	L	L	L	VTR OUT	VTR OUT	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	TUNER
					H	L	H	----	H	H	L	H	H	L	L	H	VTR OUT	VTR OUT	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
					H	H	L	----	H	H	H	L	H	L	H	H	VTR OUT	VTR OUT	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				ON Ⓗ	H	L	L	----	H	H	L	L	H	H	L	L	VTR OUT	VTR OUT	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	TUNER
					L	L	L	----	H	H	L	L	H	H	L	L	VTR OUT	VTR OUT	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	TUNER
					H	L	H	----	H	H	L	H	H	H	L	H	VTR OUT	VTR OUT	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
					H	H	L	----	H	H	H	L	H	H	H	H	VTR OUT	VTR OUT	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
			VV Ⓛ	----	H	L	L	----	H	H	L	L	H	H	L	L	VTR OUT	VTR OUT	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	PLAYBACK
					L	L	L	----	H	H	L	L	H	H	L	L	VTR OUT	VTR OUT	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	PLAYBACK
					H	L	H	----	H	H	L	H	H	H	L	H	VTR OUT	VTR OUT	AV1 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	PLAYBACK
					H	H	L	----	H	H	H	L	H	H	L	H	VTR OUT	VTR OUT	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV2 IN (L)	AV2 IN (R)	PLAYBACK
	DECODER Ⓛ	TV Ⓗ	----	OFF Ⓛ	H	L	L	L	L	L	L	L	H	L	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
								H	L	L	L	L	L	H	H	L	AV2 IN	AV1 IN	TUNER	TUNER	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
					L	L	L	L	L	H	L	L	H	L	L	L	VTR OUT	TUNER IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	TUNER
								H	L	H	H	L	H	L	L	H	VTR OUT	TUNER IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	L	H	L	L	L	L	H	H	L	L	H	VTR OUT	AV1 IN	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
								H	L	L	H	L	L	H	H	H	AV2 IN	AV1 IN	AV2 IN	AV2 IN	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	H	L	L	L	L	H	L	H	L	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
								H	L	L	H	L	L	H	H	H	AV2 IN	AV1 IN	AV2 IN	AV2 IN	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				ON Ⓗ	H	L	L	L	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
								H	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
					L	L	L	L	L	H	L	L	H	H	L	L	VTR OUT	TUNER IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	TUNER
								H	L	H	H	L	H	H	H	H	VTR OUT	TUNER IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	L	H	L	L	L	L	H	H	H	L	H	VTR OUT	AV1 IN	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
								H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	H	L	L	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
								H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
		VTR Ⓛ	EE Ⓗ	OFF Ⓛ	H	L	L	L	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
								H	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
					L	L	L	L	L	H	L	L	H	H	L	L	VTR OUT	TUNER IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	TUNER
								H	L	H	H	L	H	H	H	H	VTR OUT	TUNER IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	L	H	L	L	L	L	H	H	H	L	H	VTR OUT	AV1 IN	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
								H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	H	L	L	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
								H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				ON Ⓗ	H	L	L	L	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
								H	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
					L	L	L	L	L	H	L	L	H	H	L	L	VTR OUT	TUNER IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	TUNER
								H	L	H	H	L	H	H	H	H	VTR OUT	TUNER IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	L	H	L	L	L	L	H	H	H	L	H	VTR OUT	AV1 IN	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
								H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
					H	H	L	L	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
								H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
			VV Ⓛ	----	H	L	L	L	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	PLAYBACK
								H	L	L	L	L	H	H	L	L	VTR OUT	AV1 IN	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	-----	-----	PLAYBACK
					L	L	L	L	L	H	L	L	H	H	L	L	VTR OUT	TUNER IN	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	PLAYBACK
								H	L	H	H	L	H	H	L	H	VTR OUT	TUNER IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	PLAYBACK
					H	L	H	L	L	L	L	H	H	H	L	H	VTR OUT	AV1 IN	AV1 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	PLAYBACK
								H	L	L	H	L	H	H	L	H	VTR OUT	AV1 IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	PLAYBACK
					H	H	L	L	L	L	H	L	H	H	L	H	VTR OUT	AV1 IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	PLAYBACK
								H	L	L	H	L	H	H	L	H	VTR OUT	AV1 IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	PLAYBACK

NOTE: THIS TABLE IS FOR ONLY "EG/EI" MODEL

INPUT CH SELECT			INPUT CH
DBS/CANAL ②	INPUT SLCT B ⑧	INPUT SLCT A ⑨	
H	L	L	NORMAL TUNER
L	L	L	DBS/C+ TUNER
H	L	H	AV1
H	H	L	AV2

TRUTH TABLE

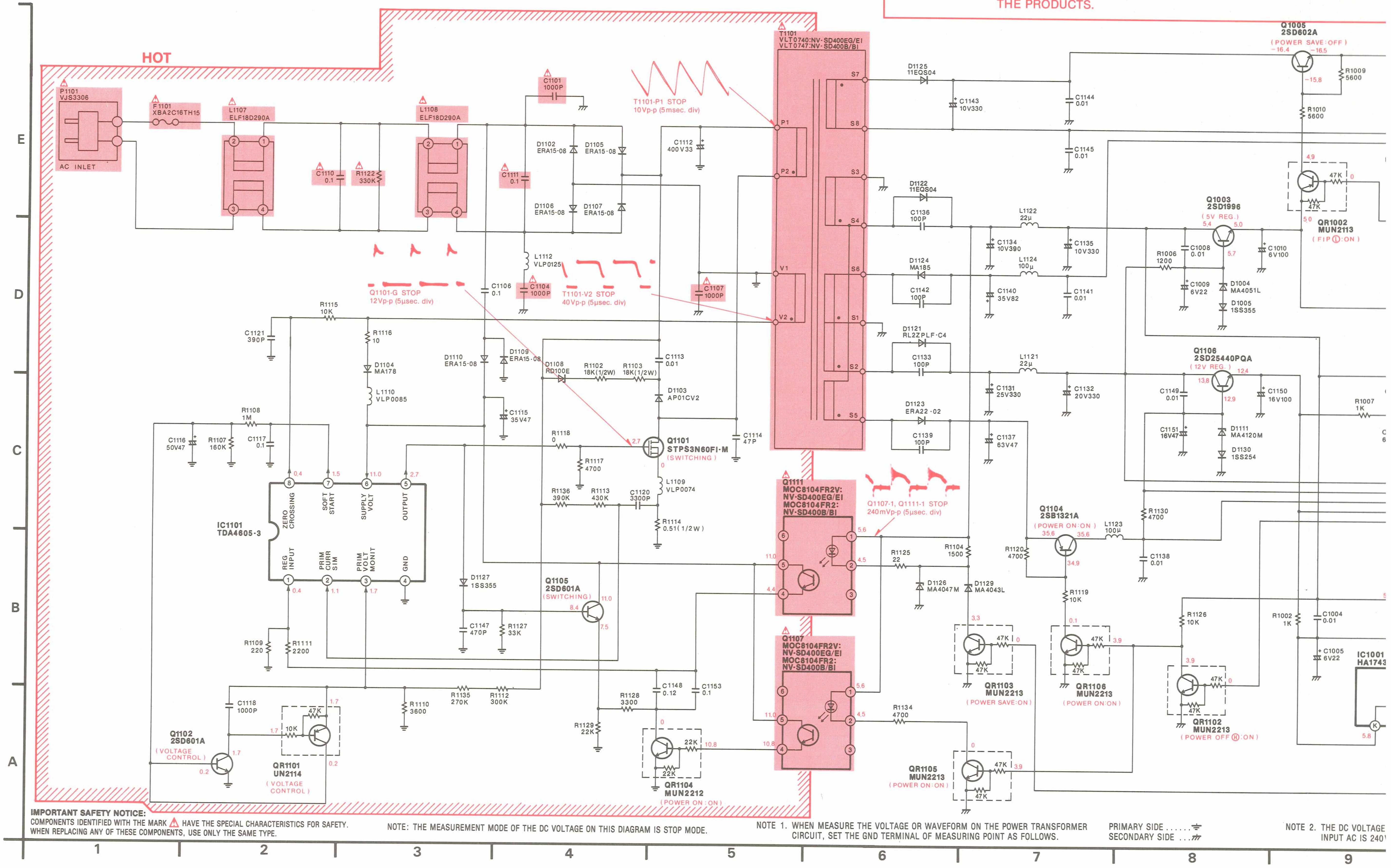
IC3904 INPUT								IC3904 OUTPUT								VIDEO OUTPUT RESULT				AUDIO OUTPUT RESULT						
POWER	AV2 SLCT	EE/VV	OSD ON	INPUT CH			AV2 PB	AV2 OUT SLCT		VTR IN SLCT		AV1 OUT SLCT	AV1 PB	RGB SW	FM INS	AV1 OUT	AV2 OUT	VTR IN	VTR OUT	AV1 OUT (L)	AV1 OUT (R)	AV2 OUT (L)	AV2 OUT (R)	AUDIO IN (L)	AUDIO IN (R)	AUDIO OUT
⑥	④	⑦	⑪	②	⑧	⑨	③	⑯	⑰	⑱	⑲	⑫	⑬	⑭	⑮	(AV1-⑲)	(AV2-⑲)	(PP3901-3)	(PP3901-7)	(AV1-③)	(AV1-①)	(AV2-③)	(AV2-①)	(PP3902-9)	(PP3902-10)	(PP3902-6)
OFF Ⓛ	----	----	----	--	--	--	L	L	L	L	L	L	L	L	L	AV2 IN	AV1 IN	TUNER	TUNER	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
							H	L	L	L	L	L	H	H	L	AV2 IN	AV1 IN	TUNER	TUNER	AV2 IN (L)	AV2 IN (R)	AV1 IN (L)	AV1 IN (R)	-----	-----	TUNER
ON Ⓗ	VTR Ⓗ	EE Ⓗ	OFF Ⓛ	H	L	L	----	H	H	L	L	H	L	L	L	VTR OUT	VTR OUT	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	TUNER
				H	L	H	----	H	H	L	H	H	L	L	H	VTR OUT	VTR OUT	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
				H	H	L	----	H	H	H	L	H	L	H	H	VTR OUT	VTR OUT	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
			ON Ⓗ	H	L	L	----	H	H	L	L	H	H	L	L	VTR OUT	VTR OUT	TUNER	TUNER	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	TUNER
				H	L	H	----	H	H	L	H	H	H	L	H	VTR OUT	VTR OUT	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
				H	H	L	----	H	H	H	L	H	H	H	H	VTR OUT	VTR OUT	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
		VV Ⓛ	----	H	L	L	----	H	H	L	L	H	H	L	L	VTR OUT	VTR OUT	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	-----	-----	PLAYBACK
				H	L	H	----	H	H	L	H	H	H	L	H	VTR OUT	VTR OUT	AV1 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	PLAYBACK
				H	H	L	----	H	H	H	L	H	H	L	H	VTR OUT	VTR OUT	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AUDIO OUT	AUDIO OUT	AV2 IN (L)	AV2 IN (R)	PLAYBACK
	DECODER Ⓛ	EE Ⓗ	OFF Ⓛ	H	L	L	L	L	H	L	L	H	L	L	L	VTR OUT	TUNER IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	TUNER
							H	L	H	H	L	H	L	H	H	VTR OUT	TUNER IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				H	L	H	L	L	L	L	H	H	L	L	H	VTR OUT	AV1 IN	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
							H	L	L	H	L	H	L	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				H	H	L	L	L	L	H	L	H	L	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
							H	L	L	H	L	H	L	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
			ON Ⓗ	H	L	L	L	L	H	L	L	H	H	L	L	VTR OUT	TUNER IN	TUNER	TUNER	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	TUNER
							H	L	H	H	L	H	H	H	H	VTR OUT	TUNER IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				H	L	H	L	L	L	L	H	H	H	L	H	VTR OUT	AV1 IN	AV1 IN	AV1 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)
							H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
				H	H	L	L	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
							H	L	L	H	L	H	H	H	H	VTR OUT	AV1 IN	AV2 IN	AV2 IN	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	AV2 IN (L)
		VV Ⓛ	----	H	L	L	L	L	H	L	L	H	H	L	L	VTR OUT	TUNER IN	TUNER	PLAYBACK	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	-----	-----	PLAYBACK
							H	L	H	H	L	H	H	L	H	VTR OUT	TUNER IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	TUN A IN	TUN A IN	AV2 IN (L)	AV2 IN (R)	PLAYBACK
				H	L	H	L	L	L	L	H	H	H	L	H	VTR OUT	AV1 IN	AV1 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV1 IN (L)	AV1 IN (R)	PLAYBACK
							H	L	L	H	L	H	H	L	H	VTR OUT	AV1 IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	PLAYBACK
				H	H	L	L	L	L	H	L	H	H	L	H	VTR OUT	AV1 IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	PLAYBACK
							H	L	L	H	L	H	H	L	H	VTR OUT	AV1 IN	AV2 IN	PLAYBACK	AUDIO OUT	AUDIO OUT	AV1 IN (L)	AV1 IN (R)	AV2 IN (L)	AV2 IN (R)	PLAYBACK

NOTE: THIS TABLE IS FOR ONLY "B/BI" MODEL

INPUT CH SELECT			INPUT CH
DBS/CANAL ②	INPUT SLCT B ⑧	INPUT SLCT A ⑨	
H	L	L	NORMAL TUNER
L	L	L	DBS/C+ TUNER
H	L	H	AV1
H	H	L	AV2

SECTION 4
SCHEMATIC DIAGRAMS
4-1. POWER SUPPLY SECTION IN MAIN SCHEMATIC DIAGRAM

CAUTION THE RED MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUIS
THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING R
THE PRODUCTS.


HOT
P1101
VJS3306
AC INLET
F1101
XBA2C16TH15
L1107
ELF18D290A
L1108
ELF18D290A
C1110
0.1
R1122
330K
C1111
0.1
C1101
1000P
D1102
ERA15-08
D1105
ERA15-08
D1106
ERA15-08
D1107
ERA15-08
C1112
400V33
T1101-P1 STOP
10Vp-p (5msec. div)
T1101
VLT0740:NV-SD400EG/EI
VLT0747:NV-SD400B/BI
P1
P2
V1
V2
S1
S2
S3
S4
S5
S6
S7
S8
L1112
VLP0125
C1106
0.1
C1104
1000P
C1107
1000P
Q1101-G STOP
12Vp-p (5μsec. div)
T1101-V2 STOP
40Vp-p (5μsec. div)
R1115
10K
C1121
390P
R1116
10
D1104
MA178
L1110
VLP0085
D1110
ERA15-08
D1109
ERA15-08
D1108
RD100E
R1102
18K(1/2W)
R1103
18K(1/2W)
C1113
0.01
D1103
AP01CV2
C1115
35V47
R1108
1M
C1116
50V47
R1107
160K
C1117
0.1
R1118
0
R1117
4700
Q1101
STPS3N60FI-M
(SWITCHING)
C1114
47P
L1109
VLP0074
R1136
390K
R1113
430K
C1120
3300P
R1114
0.51(1/2W)
IC1101
TDA4605-3
ZERO CROSSING
SOFT START
SUPPLY VOLT
OUTPUT
REG INPUT
PRIM CURR SIM
PRIM VOLT MONIT
GND
D1127
1SS355
Q1105
2SD601A
(SWITCHING)
C1147
470P
R1127
33K
R1109
220
R1111
2200
C1118
1000P
Q1102
2SD601A
(VOLTAGE CONTROL)
QR1101
UN2114
(VOLTAGE CONTROL)
R1110
3600
R1135
270K
R1112
300K
R1128
3300
R1129
22K
C1148
0.12
C1153
0.1
QR1104
MUN2212
(POWER ON:ON)
Q1111
MOC8104FR2V:
NV-SD400EG/EI
MOC8104FR2:
NV-SD400B/BI
Q1107
MOC8104FR2V:
NV-SD400EG/EI
MOC8104FR2:
NV-SD400B/BI
Q1107-1, Q1111-1 STOP
240mVp-p (5μsec. div)
R1125
22
R1104
1500
D1126
MA4047M
D1129
MA4043L
R1134
4700
QR1103
MUN2213
(POWER SAVE:ON)
QR1105
MUN2213
(POWER ON:ON)
D1125
11EQS04
C1143
10V330
C1144
0.01
C1145
0.01
D1122
11EQS04
C1136
100P
L1122
22μ
C1134
10V390
C1135
10V330
D1124
MA185
L1124
100μ
C1142
100P
C1140
35V82
C1141
0.01
D1121
RL2ZPLF-C4
C1133
100P
L1121
22μ
C1131
25V330
C1132
20V330
D1123
ERA22-02
C1139
100P
C1137
63V47
Q1104
2SB1321A
(POWER ON:ON)
L1123
100μ
R1120
4700
R1119
10K
QR1106
MUN2213
(POWER ON:ON)
R1130
4700
C1138
0.01
Q1005
2SD602A
(POWER SAVE:OFF)
R1009
5600
R1010
5600
QR1002
MUN2113
(FIP Ⓓ:ON)
Q1003
2SD1996
(5V REG.)
R1006
1200
C1008
0.01
C1009
6V22
D1004
MA4051L
D1005
1SS355
C1010
6V100
Q1106
2SD25440PQA
(12V REG.)
C1149
0.01
C1151
16V47
D1111
MA4120M
D1130
1SS254
C1150
16V100
R1007
1K
R1126
10K
QR1102
MUN2213
(POWER OFF Ⓑ:ON)
R1002
1K
C1004
0.01
C1005
6V22
IC1001
HA1743
47K
22K
10K
A
B
C
D
E
1
2
3
4
5
6
7
8
9

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

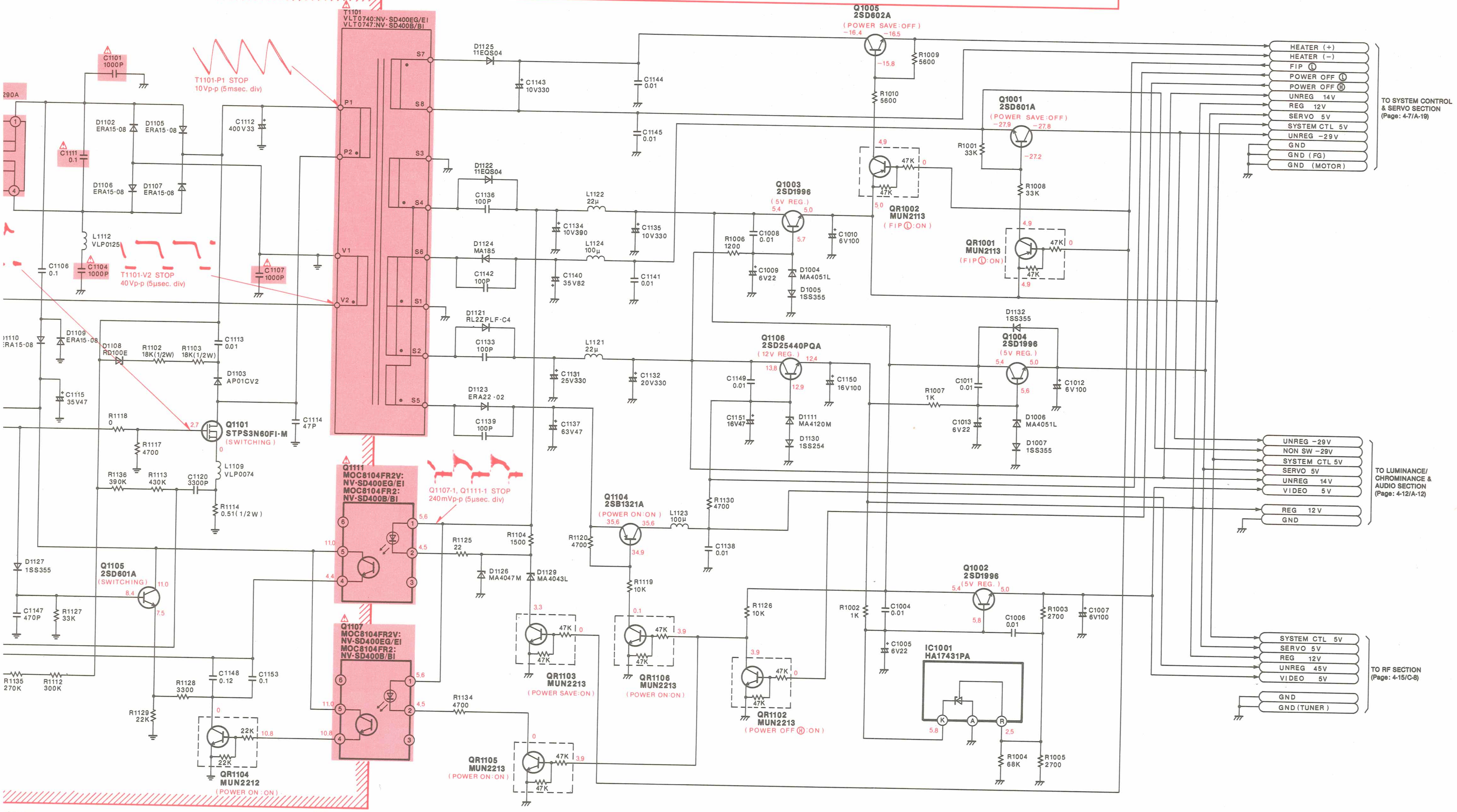
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.

PRIMARY SIDE ......⏚
SECONDARY SIDE ...⏚

NOTE 2. THE DC VOLTAGE
INPUT AC IS 240

MATIC DIAGRAM

CAUTION THE RED MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.


T1101
VLT0740:NV-SD400EG/EI
VLT0747:NV-SD400B/BI
P1
P2
V1
V2
S7
S8
S3
S4
S6
S1
S2
S5
C1101 1000P
T1101-P1 STOP 10Vp-p (5msec. div)
290A
D1102 ERA15-08
D1105 ERA15-08
C1112 400V33
C1111 0.1
D1106 ERA15-08
D1107 ERA15-08
L1112 VLP0125
C1106 0.1
C1104 1000P
T1101-V2 STOP 40Vp-p (5μsec. div)
C1107 1000P
1110 ERA15-08
D1109 ERA15-08
D1108 RD100E
R1102 18K(1/2W)
R1103 18K(1/2W)
C1113 0.01
D1103 AP01CV2
C1115 35V47
R1118 0
R1117 4700
Q1101 STPS3N60FI-M (SWITCHING)
C1114 47P
R1136 390K
R1113 430K
C1120 3300P
L1109 VLP0074
R1114 0.51(1/2W)
D1127 1SS355
Q1105 2SD601A (SWITCHING)
C1147 470P
R1127 33K
R1135 270K
R1112 300K
R1128 3300
C1148 0.12
C1153 0.1
R1129 22K
QR1104 MUN2212 (POWER ON:ON)
22K
Q1111 MOC8104FR2V: NV-SD400EG/EI MOC8104FR2: NV-SD400B/BI
Q1107-1, Q1111-1 STOP 240mVp-p (5μsec. div)
Q1107 MOC8104FR2V: NV-SD400EG/EI MOC8104FR2: NV-SD400B/BI
R1125 22
R1104 1500
D1126 MA4047M
D1129 MA4043L
R1134 4700
QR1105 MUN2213 (POWER ON:ON)
QR1103 MUN2213 (POWER SAVE:ON)
47K
D1125 11EQS04
C1143 10V330
C1144 0.01
C1145 0.01
D1122 11EQS04
C1136 100P
L1122 22μ
C1134 10V390
C1135 10V330
D1124 MA185
L1124 100μ
C1142 100P
C1140 35V82
C1141 0.01
D1121 RL2ZPLF-C4
C1133 100P
L1121 22μ
C1131 25V330
C1132 20V330
D1123 ERA22-02
C1139 100P
C1137 63V47
Q1104 2SB1321A (POWER ON:ON)
R1120 4700
L1123 100μ
R1119 10K
QR1106 MUN2213 (POWER ON:ON)
R1130 4700
C1138 0.01
Q1005 2SD602A (POWER SAVE:OFF)
R1009 5600
R1010 5600
QR1002 MUN2113 (FIP Ⓛ:ON)
Q1003 2SD1996 (5V REG.)
R1006 1200
C1008 0.01
C1009 6V22
D1004 MA4051L
D1005 1SS355
C1010 6V100
Q1001 2SD601A (POWER SAVE:OFF)
R1001 33K
R1008 33K
QR1001 MUN2113 (FIP Ⓛ:ON)
Q1106 2SD2544OPQA (12V REG.)
C1149 0.01
C1150 16V100
C1151 16V47
D1111 MA4120M
D1130 1SS254
D1132 1SS355
Q1004 2SD1996 (5V REG.)
R1007 1K
C1011 0.01
C1012 6V100
C1013 6V22
D1006 MA4051L
D1007 1SS355
R1126 10K
QR1102 MUN2213 (POWER OFF Ⓗ:ON)
Q1002 2SD1996 (5V REG.)
R1002 1K
C1004 0.01
C1005 6V22
C1006 0.01
R1003 2700
C1007 6V100
IC1001 HA17431PA
K A R
R1004 68K
R1005 2700
HEATER (+)
HEATER (−)
FIP Ⓛ
POWER OFF Ⓛ
POWER OFF Ⓗ
UNREG 14V
REG 12V
SERVO 5V
SYSTEM CTL 5V
UNREG −29V
GND
GND (FG)
GND (MOTOR)
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-7/A-19)
UNREG −29V
NON SW −29V
SYSTEM CTL 5V
SERVO 5V
UNREG 14V
VIDEO 5V
REG 12V
GND
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION (Page: 4-12/A-12)
SYSTEM CTL 5V
SERVO 5V
REG 12V
UNREG 45V
VIDEO 5V
GND
GND (TUNER)
TO RF SECTION (Page: 4-15/C-8)

UREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.

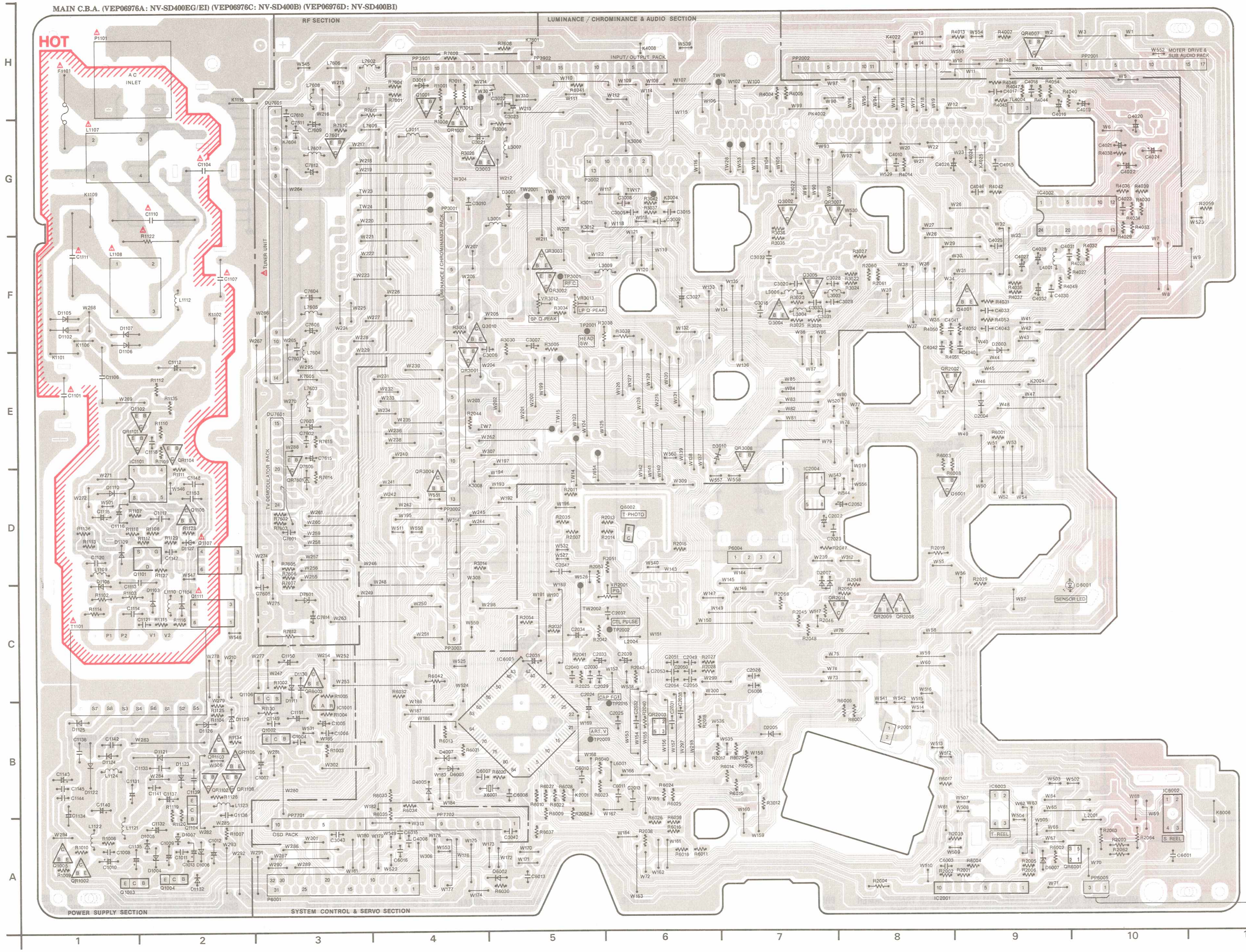
PRIMARY SIDE ......⏚
SECONDARY SIDE ...⏚

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4 5 6 7 8 9 10 11 12

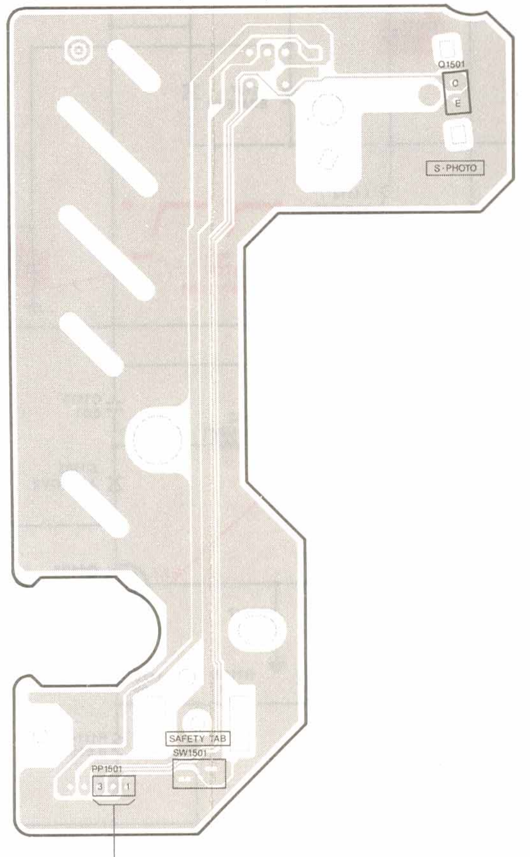
4-2. MAIN C.B.A. (VEP06976A: NV-SD400EG/EI) (VEP06976C: NV-SD400B) (VEP06976D: NV-SD400BI)


MAIN C.B.A. (VEP06976A: NV-SD400EG/EI) (VEP06976C: NV-SD400B) (VEP06976D: NV-SD400BI)
RF SECTION
LUMINANCE / CHROMINANCE & AUDIO SECTION
HOT
AC INLET
TUNER UNIT
LUMINANCE / CHROMINANCE PACK
Y/C DEMODULATOR PACK
INPUT/ OUTPUT PACK
MOTOR DRIVE & SUB AUDIO PACK
OSD PACK
POWER SUPPLY SECTION
SYSTEM CONTROL & SERVO SECTION
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

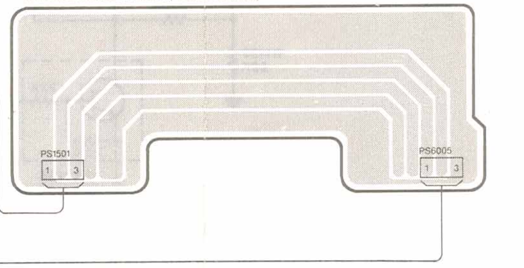
CAUTION

THE RED MARK INDICATES THE
TO DISTINGUISH THE PRIMA
SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEI
SHOCK DURING REPAIR AND
PRODUCTS.

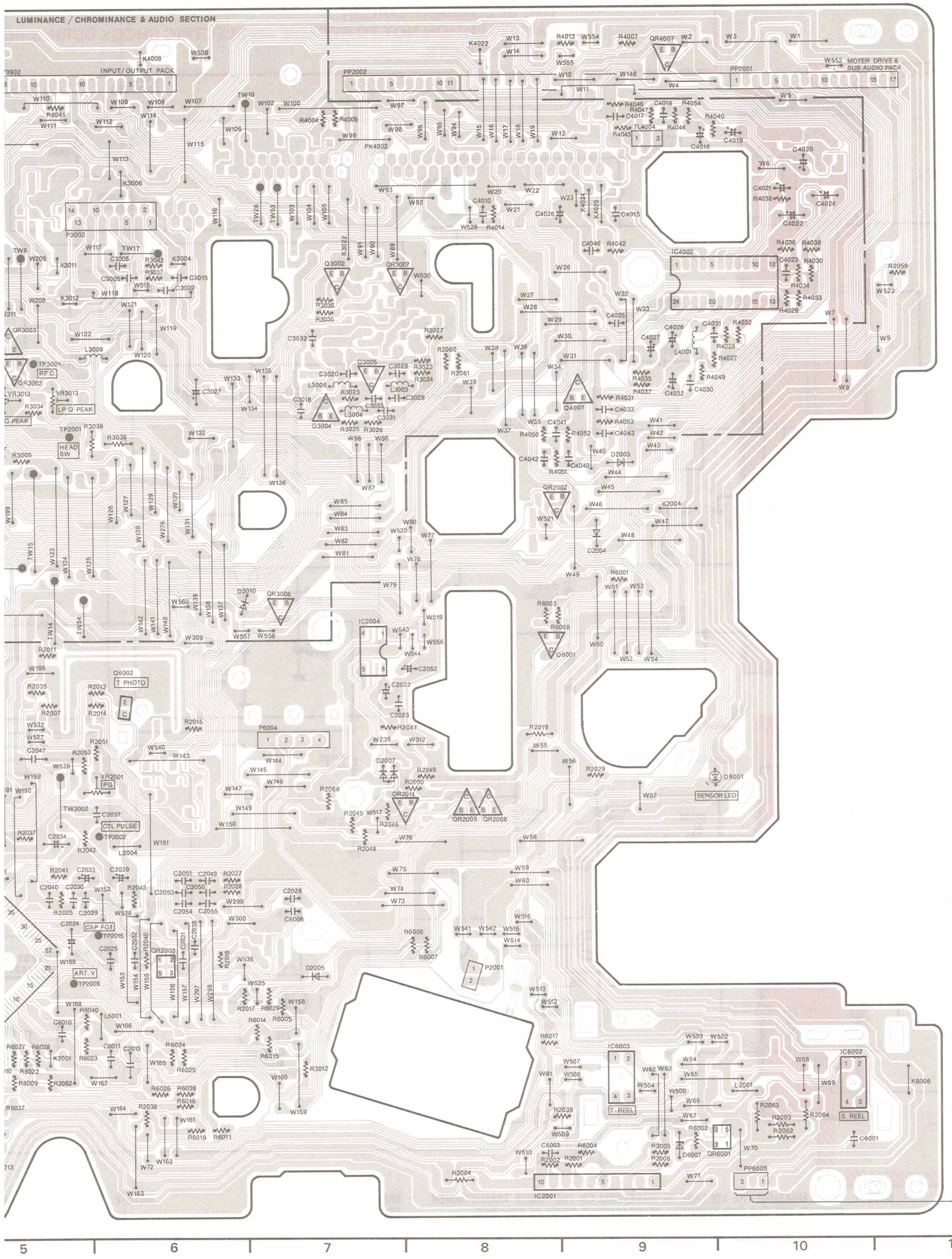
SAFETY TAB C.B.A. (VEP00U71A)


Q1501
S-PHOTO
SAFETY TAB
SW1501
PP1501
11
12

INTERFACE C.B.A. (VEP00U88A)


PS1501
PS6005
13

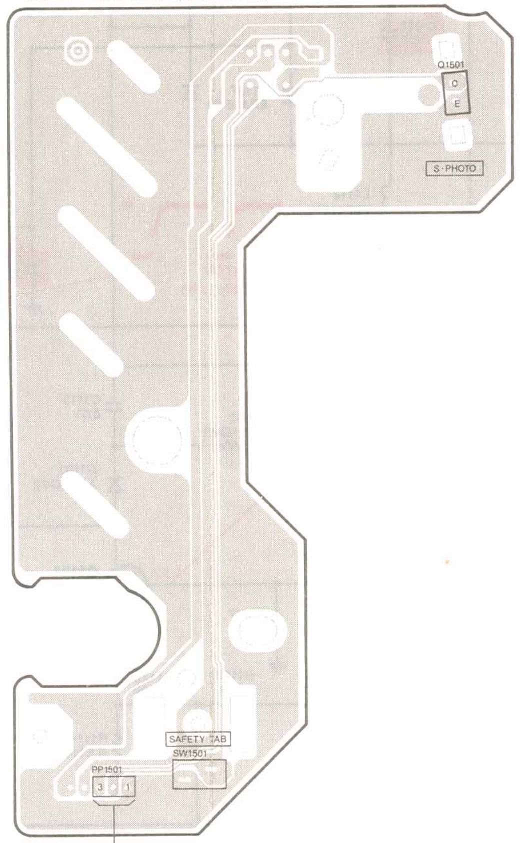
76C: NV-SD400B) (VEP06976D: NV-SD400BI)


LUMINANCE / CHROMINANCE & AUDIO SECTION
INPUT/ OUTPUT PACK
MOTER DRIVE & SUB AUDIO PACK
IC4002
IC2004
IC2001
T-PHOTO
SENSOR LED
CTL PULSE
CAP FG1
T-REEL
S-REEL
5
6
7
8
9
10

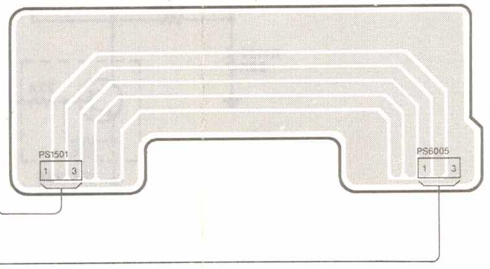
CAUTION

THE RED MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

SAFETY TAB C.B.A. (VEP00U71A)


Q1501
S-PHOTO
SAFETY TAB
SW1501
PP1501

INTERFACE C.B.A. (VEP00U88A)


PS1501
PS6005
11
12
13

MAIN C.B.A. ADDRESS INFORMATION

POWER SUPPLY SECTION

Transistor	
Q1001	H-4
Q1002	B-3
Q1003	A-1
Q1004	A-2
Q1005	A-1
Q1101	D-2
Q1102	E-2
Q1104	A-2
Q1105	D-2
Q1106	C-2
Q1107	D-2
Q1111	C-2

Transistor & Resistor	
QR1001	G-4
QR1002	A-1
QR1101	E-1
QR1102	A-1
QR1103	B-2
QR1104	E-2
QR1105	B-2
QR1106	B-2

Integrated Circuit	
IC1001	B-3
IC1101	E-1

ADDRESS INFORMATION

SYSTEM CONTROL & SERVO SECTION

Transistor	
Q1501	F-13
Q6001	D-9
Q6002	D-6

Transistor & Resistor	
QR2002	E-9
QR2003	B-6
QR2008	C-8
QR2009	C-8
QR2014	C-8
QR6001	A-10
QR6003	C-3

Integrated Circuit	
IC2001	A-8
IC2004	D-7
IC6001	C-5
IC6002	B-10
IC6003	B-9

Test Point	
TP2001	F-5
TP2002	C-6
TP2009	B-5
TP2015	B-6
TW7	E-4
TW54	D-5
TW2002	C-5

Adjustment	
VR2001	C-6

Connector	
P2001	B-8
P6001	A-3
P6004	D-7
PP1501	C-11
PP2001	H-10
PP2002	H-7
PP6005	A-10
PS1501	A-11
PS6005	A-13

ADDRESS INFORMATION

LUMINANCE/ CHROMINANCE & AUDIO SECTION

Transistor	
Q3002	G-7
Q3003	G-4
Q3004	F-7
Q3005	F-7
Q3010	F-5
Q4001	F-9

Transistor & Resistor	
QR3001	E-4
QR3002	F-5
QR3003	F-5
QR3004	D-4
QR3008	E-7
QR4007	H-9

Integrated Circuit	
IC4002	G-9

Test Point	
TL4004	H-9
TP3001	F-5
TW6	G-5
TW14	D-5
TW15	E-5
TW17	G-6
TW19	H-7
TW28	G-7
TW53	G-7
TW2001	G-5

Adjustment	
VR3012	F-5
VR3013	F-5

Connector	
P3002	G-5
PP3001	G-4
PP3002	D-4
PP3003	C-4
PP3901	H-4
PP3902	H-5
PP7701	B-3
PP7702	B-4

ADDRESS INFORMATION

RF SECTION

Transistor	
Q7601	G-3

Transistor & Resistor	
QR7601	D-3

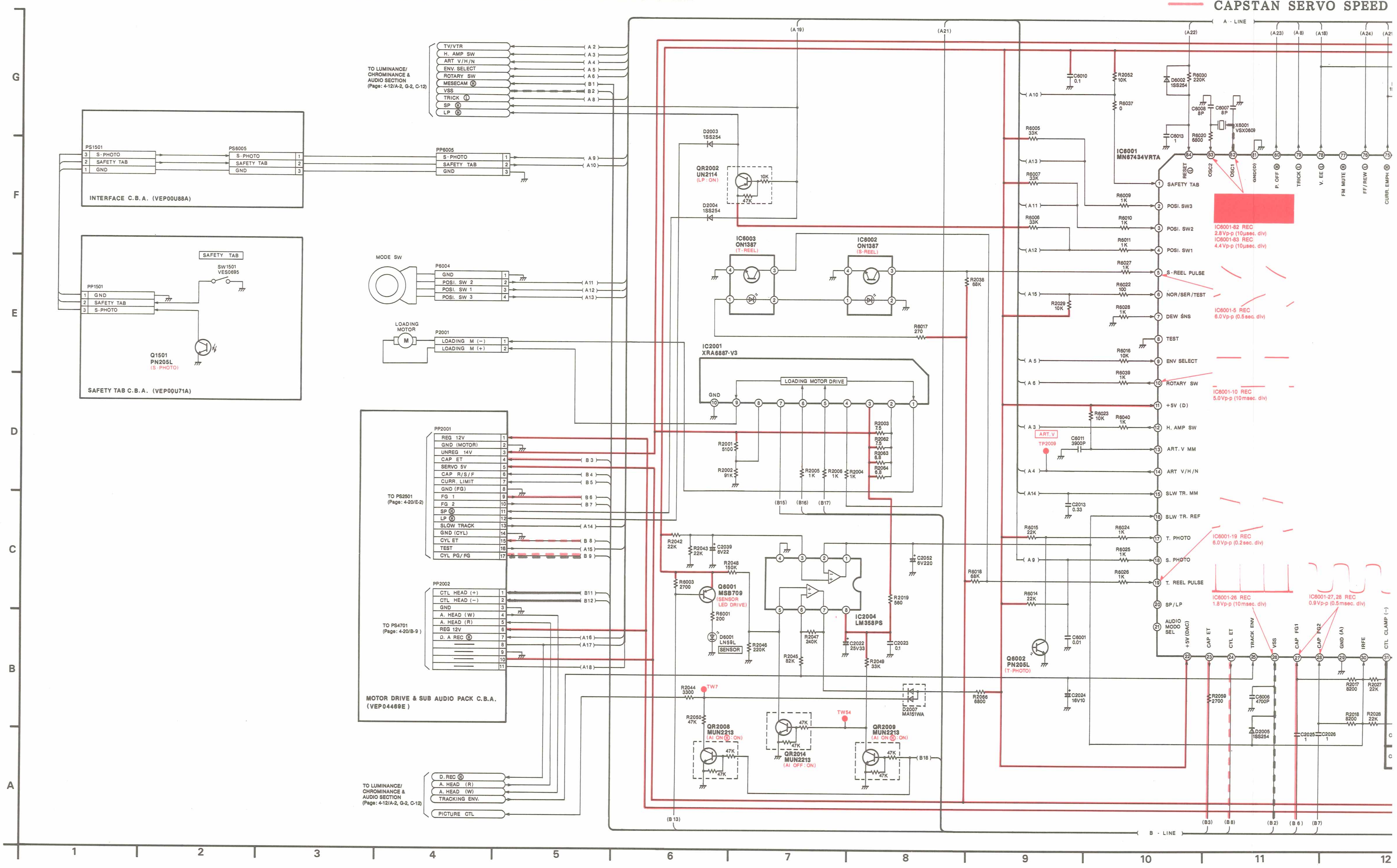
Test Point	
TW23	G-4
TW24	G-4
TW30	H-4

Connector	
DU7601	H-3
DU7601	E-3

ADDRESS INFORMATION

4-3. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

🟥 CAPSTAN SERVO SPEED


A - LINE
B - LINE
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION (Page: 4-12/A-2, G-2, C-12)
TV/VTR
H. AMP SW
ART V/H/N
ENV. SELECT
ROTARY SW
MESECAM Ⓗ
VSS
TRICK Ⓛ
SP Ⓗ
LP Ⓗ
PS1501
PS6005
PP6005
S-PHOTO
SAFETY TAB
GND
INTERFACE C.B.A. (VEP00U88A)
SAFETY TAB
SW1501 VES0695
PP1501
Q1501 PN205L (S-PHOTO)
SAFETY TAB C.B.A. (VEP00U71A)
MODE SW
P6004
POSI. SW 2
POSI. SW 1
POSI. SW 3
LOADING MOTOR
P2001
LOADING M (−)
LOADING M (+)
PP2001
REG 12V
GND (MOTOR)
UNREG 14V
CAP ET
SERVO 5V
CAP R/S/F
CURR. LIMIT
GND (FG)
FG 1
FG 2
SLOW TRACK
GND (CYL)
CYL ET
TEST
CYL PG/FG
TO PS2501 (Page: 4-20/E-2)
PP2002
CTL HEAD (+)
CTL HEAD (−)
A. HEAD (W)
A. HEAD (R)
D. A REC Ⓗ
TO PS4701 (Page: 4-20/B-9)
MOTOR DRIVE & SUB AUDIO PACK C.B.A. (VEP04469E)
D. REC Ⓗ
TRACKING ENV.
PICTURE CTL
D2003 1SS254
D2004 1SS254
QR2002 UN2114 (LP: ON)
IC6003 ON1387 (T-REEL)
IC6002 ON1387 (S-REEL)
IC2001 XRA6887-V3
LOADING MOTOR DRIVE
Q6001 MSB709 (SENSOR LED DRIVE)
D6001 LN59L SENSOR
IC2004 LM358PS
QR2008 MUN2213 (AI ON Ⓗ ON)
QR2014 MUN2213 (AI OFF: ON)
QR2009 MUN2213 (AI ON Ⓗ ON)
D2007 MA151WA
TW7
TW54
Q6002 PN205L (T-PHOTO)
ART. V
TP2009
IC6001 MN67434VRTA
X6001 VSX0609
D6002 1SS254
RESET Ⓛ
OSC2
OSC1
GND (O)
P. OFF Ⓗ
TRICK Ⓛ
V. EE Ⓛ
FM MUTE Ⓗ
FF/REW Ⓗ
CURR. EMPH Ⓗ
SAFETY TAB
POSI. SW3
POSI. SW2
POSI. SW1
S-REEL PULSE
NOR/SER/TEST
DEW SNS
TEST
ENV SELECT
ROTARY SW
+5V (D)
H. AMP SW
ART. V MM
ART V/H/N
SLW TR. MM
SLW TR. REF
T. PHOTO
S. PHOTO
T. REEL PULSE
SP/LP
AUDIO MODO SEL
+5V (DAC)
CAP ET
CYL ET
TRACK ENV
VSS
CAP FG1
CAP FG2
GND (A)
IRFE
CTL CLAMP (−)
IC6001-82 REC 2.8Vp-p (10μsec. div)
IC6001-83 REC 4.4Vp-p (10μsec. div)
IC6001-5 REC 6.0Vp-p (0.5sec. div)
IC6001-10 REC 5.0Vp-p (10msec. div)
IC6001-19 REC 6.0Vp-p (0.2sec. div)
IC6001-26 REC 1.8Vp-p (10msec. div)
IC6001-27, 28 REC 0.9Vp-p (0.5msec. div)
G
F
E
D
C
B
A
1
2
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4
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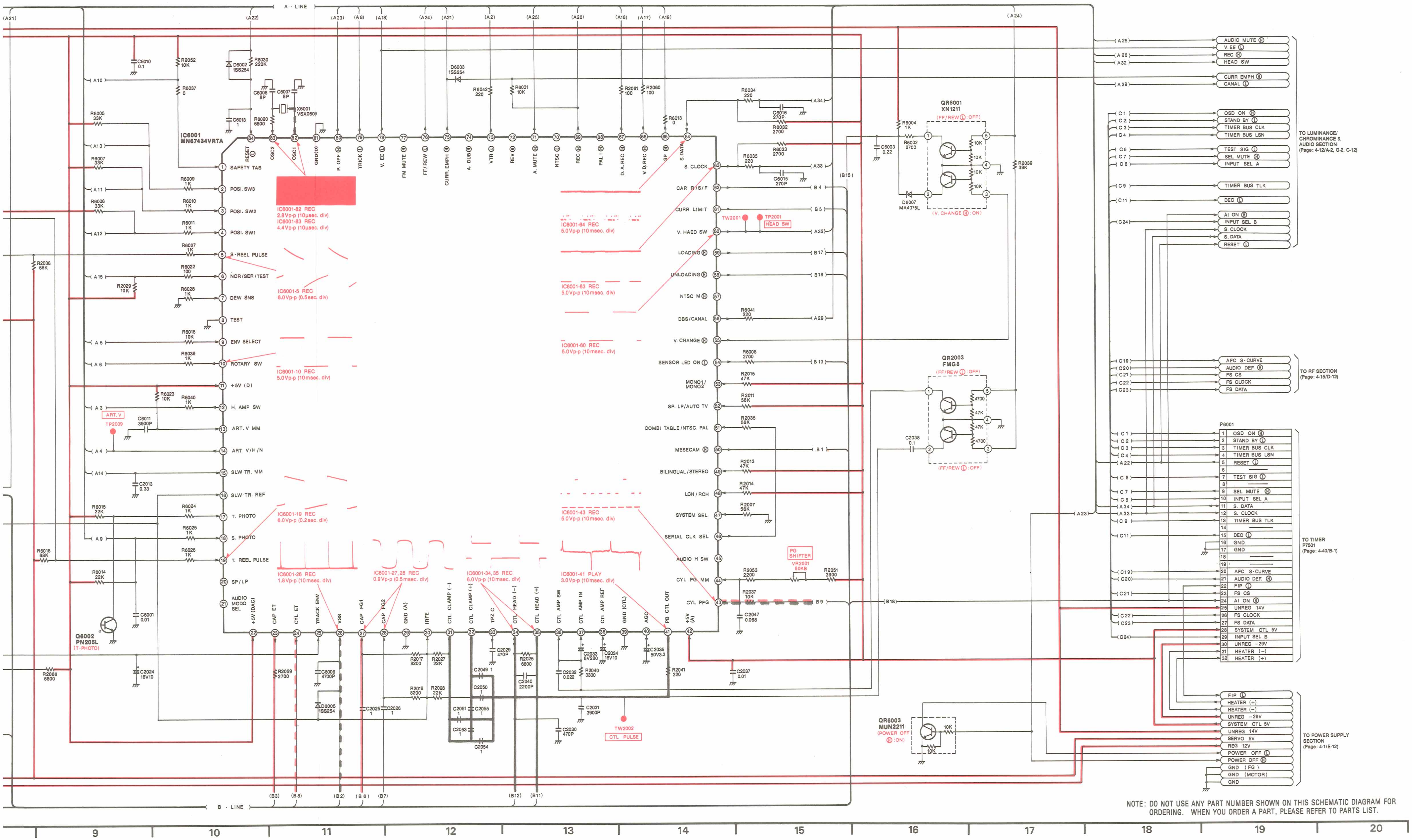
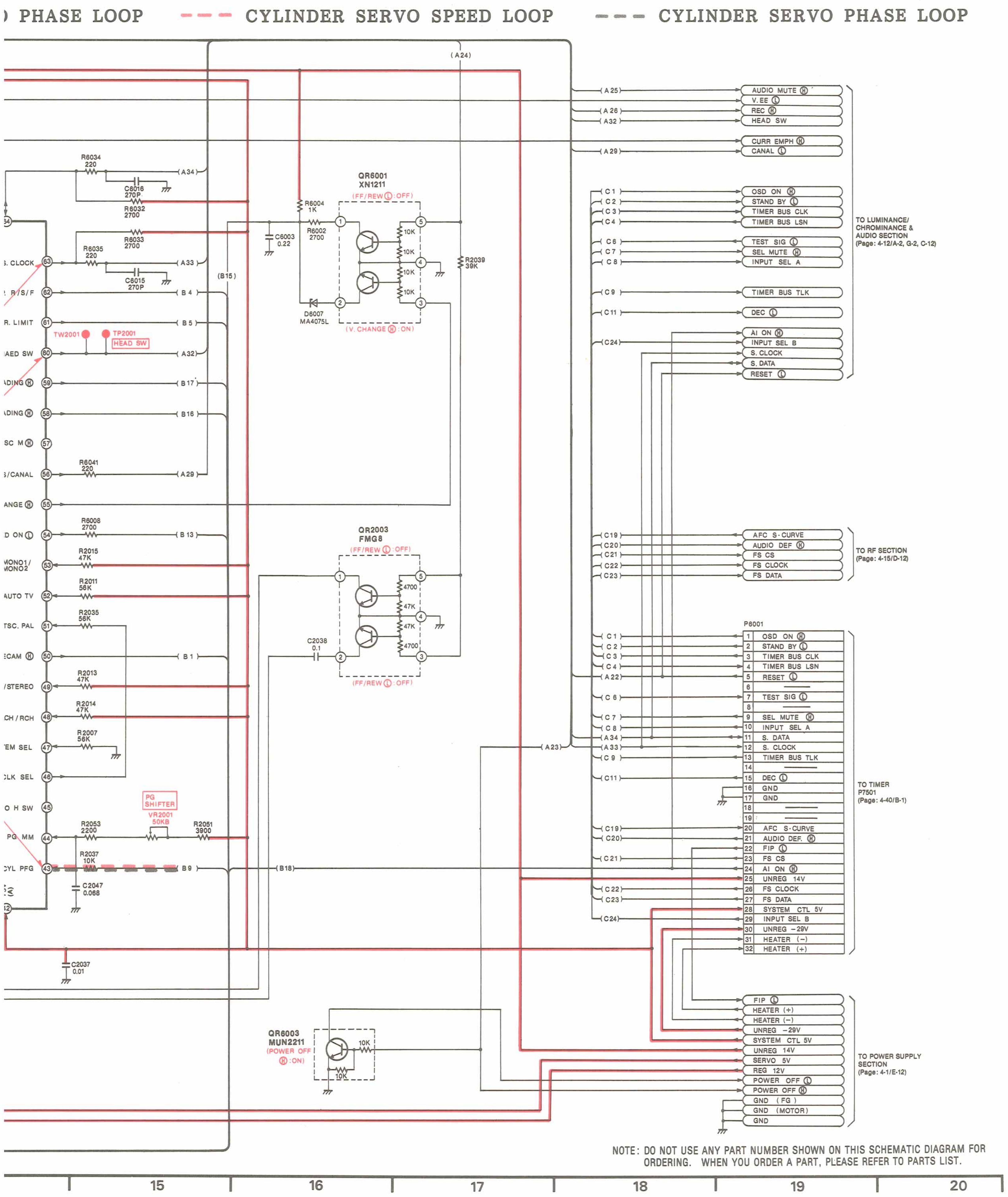
12

CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP


A · LINE
B · LINE
IC6001
MN67434VRTA
SAFETY TAB
POSI. SW3
POSI. SW2
POSI. SW1
S-REEL PULSE
NOR/SER/TEST
DEW SNS
TEST
ENV SELECT
ROTARY SW
+5V (D)
H. AMP SW
ART. V MM
ART V/H/N
SLW TR. MM
SLW TR. REF
T. PHOTO
S. PHOTO
T. REEL PULSE
SP/LP
AUDIO MODO SEL
RESET
OSC2
OSC1
GND(D)
P. OFF
TRICK
V. EE
FM MUTE
FF/REW
CURR. EMPH
A. DUB
VTR
REV
A. MUTE
NTSC
REC
PAL
D.A. REC
V.D. REC
SP
S.DATA
S. CLOCK
CAP. R/S/F
CURR. LIMIT
V. HAED SW
LOADING
UNLOADING
NTSC M
DBS/CANAL
V. CHANGE
SENSOR LED ON
MONO1/MONO2
SP. LP/AUTO TV
COMBI TABLE/NTSC. PAL
MESECAM
BILINGUAL/STEREO
LCH/RCH
SYSTEM SEL
SERIAL CLK SEL
AUDIO H SW
CYL PG MM
CYL PFG
+5V (DAC)
CAP ET
CYL ET
TRACK ENV
VSS
CAP FG1
CAP FG2
GND (A)
IRFE
CTL CLAMP (−)
CTL CLAMP (+)
TPZ C
CTL HEAD (−)
CTL HEAD (+)
CTL AMP SW
CTL AMP IN
CTL AMP REF
GND (CTL)
AGC
PB CTL OUT
+5V (A)
IC6001-82 REC
2.8Vp-p (10μsec. div)
IC6001-83 REC
4.4Vp-p (10μsec. div)
IC6001-5 REC
6.0Vp-p (0.5sec. div)
IC6001-10 REC
5.0Vp-p (10msec. div)
IC6001-19 REC
6.0Vp-p (0.2sec. div)
IC6001-26 REC
1.8Vp-p (10msec. div)
IC6001-27,28 REC
0.9Vp-p (0.5msec. div)
IC6001-34,35 REC
6.0Vp-p (10msec. div)
IC6001-41 PLAY
3.0Vp-p (10msec. div)
IC6001-64 REC
5.0Vp-p (10msec. div)
IC6001-63 REC
5.0Vp-p (10msec. div)
IC6001-60 REC
5.0Vp-p (10msec. div)
IC6001-43 REC
5.0Vp-p (10msec. div)
TW2001
TP2001
HEAD SW
TW2002
CTL PULSE
ART. V
TP2009
PG SHIFTER
VR2001 50KB
X6001 VSX0609
D6002 1SS254
D6003 1SS254
D2005 1SS254
D6007 MA4075L
Q6002 PN205L (T-PHOTO)
QR6001 XN1211 (FF/REW Ⓛ:OFF) (V.CHANGE Ⓗ:ON)
QR2003 FMG8 (FF/REW Ⓛ:OFF)
QR6003 MUN2211 (POWER OFF Ⓗ:ON)
AUDIO MUTE Ⓗ
V.EE Ⓛ
REC Ⓗ
HEAD SW
CURR EMPH Ⓗ
CANAL Ⓛ
OSD ON Ⓗ
STAND BY Ⓛ
TIMER BUS CLK
TIMER BUS LSN
TEST SIG Ⓛ
SEL MUTE Ⓗ
INPUT SEL A
TIMER BUS TLK
DEC Ⓛ
AI ON Ⓗ
INPUT SEL B
S. CLOCK
S. DATA
RESET Ⓛ
TO LUMINANCE/CHROMINANCE & AUDIO SECTION (Page: 4-12/A-2, G-2, C-12)
AFC S-CURVE
AUDIO DEF Ⓗ
FS CS
FS CLOCK
FS DATA
TO RF SECTION (Page: 4-15/D-12)
P6001
1 OSD ON Ⓗ
2 STAND BY Ⓛ
3 TIMER BUS CLK
4 TIMER BUS LSN
5 RESET Ⓛ
7 TEST SIG Ⓛ
9 SEL MUTE Ⓗ
10 INPUT SEL A
11 S. DATA
12 S. CLOCK
13 TIMER BUS TLK
15 DEC Ⓛ
16 GND
17 GND
20 AFC S-CURVE
21 AUDIO DEF. Ⓗ
22 FIP Ⓛ
23 FS CS
24 AI ON Ⓗ
25 UNREG 14V
26 FS CLOCK
27 FS DATA
28 SYSTEM CTL 5V
29 INPUT SEL B
30 UNREG −29V
31 HEATER (−)
32 HEATER (+)
TO TIMER P7501 (Page: 4-40/B-1)
FIP Ⓛ
HEATER (+)
HEATER (−)
UNREG −29V
SYSTEM CTL 5V
UNREG 14V
SERVO 5V
REG 12V
POWER OFF Ⓛ
POWER OFF Ⓗ
GND (FG)
GND (MOTOR)
GND
TO POWER SUPPLY SECTION (Page: 4-1/E-12)
9
10
11
12
13
14
15
16
17
18
19
20

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


) PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
(A24)
R6034
220
C6016
270P
R6032
2700
R6033
2700
R6035
220
C6015
270P
(A34)
(A33)
(B15)
(B4)
(B5)
(A32)
(B17)
(B16)
(A29)
(B13)
(B1)
(B9)
(B18)
(A23)
S. CLOCK
R/S/F
R. LIMIT
HAED SW
ADING Ⓗ
ADING Ⓗ
SC M Ⓗ
S/CANAL
ANGE Ⓗ
D ON Ⓛ
MONO1/
MONO2
AUTO TV
TSC. PAL
ECAM Ⓗ
/STEREO
CH / RCH
EM SEL
CLK SEL
O H SW
PG MM
CYL PFG
TW2001
TP2001
HEAD SW
R6041
220
R6008
2700
R2015
47K
R2011
56K
R2035
56K
R2013
47K
R2014
47K
R2007
56K
PG
SHIFTER
VR2001
50KB
R2053
2200
R2051
3900
R2037
10K
C2047
0.068
C2037
0.01
QR6001
XN1211
(FF/REW Ⓛ : OFF)
R6004
1K
R6002
2700
C6003
0.22
10K
D6007
MA4075L
(V. CHANGE Ⓗ : ON)
R2039
39K
QR2003
FMG8
(FF/REW Ⓛ : OFF)
4700
47K
C2038
0.1
QR6003
MUN2211
(POWER OFF
Ⓗ : ON)
(A25)
(A26)
(A32)
(A29)
AUDIO MUTE Ⓗ
V. EE Ⓛ
REC Ⓗ
HEAD SW
CURR EMPH Ⓗ
CANAL Ⓛ
(C1)
(C2)
(C3)
(C4)
(C6)
(C7)
(C8)
(C9)
(C11)
(C24)
OSD ON Ⓗ
STAND BY Ⓛ
TIMER BUS CLK
TIMER BUS LSN
TEST SIG Ⓛ
SEL MUTE Ⓗ
INPUT SEL A
TIMER BUS TLK
DEC Ⓛ
AI ON Ⓗ
INPUT SEL B
S. CLOCK
S. DATA
RESET Ⓛ
TO LUMINANCE/
CHROMINANCE &
AUDIO SECTION
(Page: 4-12/A-2, G-2, C-12)
(C19)
(C20)
(C21)
(C22)
(C23)
AFC S-CURVE
AUDIO DEF Ⓗ
FS CS
FS CLOCK
FS DATA
TO RF SECTION
(Page: 4-15/D-12)
P6001
(A22)
(A34)
(A33)
1 OSD ON Ⓗ
2 STAND BY Ⓛ
3 TIMER BUS CLK
4 TIMER BUS LSN
5 RESET Ⓛ
6
7 TEST SIG Ⓛ
8
9 SEL MUTE Ⓗ
10 INPUT SEL A
11 S. DATA
12 S. CLOCK
13 TIMER BUS TLK
14
15 DEC Ⓛ
16 GND
17 GND
18
19
20 AFC S-CURVE
21 AUDIO DEF. Ⓗ
22 FIP Ⓛ
23 FS CS
24 AI ON Ⓗ
25 UNREG 14V
26 FS CLOCK
27 FS DATA
28 SYSTEM CTL 5V
29 INPUT SEL B
30 UNREG −29V
31 HEATER (−)
32 HEATER (+)
TO TIMER
P7501
(Page: 4-40/B-1)
FIP Ⓛ
HEATER (+)
HEATER (−)
UNREG −29V
SYSTEM CTL 5V
UNREG 14V
SERVO 5V
REG 12V
POWER OFF Ⓛ
POWER OFF Ⓗ
GND (FG)
GND (MOTOR)
GND
TO POWER SUPPLY
SECTION
(Page: 4-1/E-12)
15
16
17
18
19
20

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001										IC2004									
MODE	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8		
STOP	0.1	13.8	13.8	0	0	0	7.2	9.0	0.1	0	2.5	2.5	2.5	0	2.7	2.7	3.7	13.2		
PLAY	0.1	13.7	13.7	0	0	0	7.3	8.9	0.2	0	2.5	2.5	2.5	0	2.7	2.7	2.2	13.1		
REC	0.1	13.7	13.7	0	0	0	7.3	8.9	0.1	0	2.5	2.5	2.5	0	2.7	2.7	4.6	13.0		
F.F	0.1	13.6	13.6	0	0	0	13.6	8.9	0.1	0	2.5	2.5	2.5	0	2.7	2.7	3.3	13.0		
REW	0.1	13.6	13.6	0	0	0	13.6	8.9	0.1	0	2.5	2.5	2.5	0	2.7	2.7	4.0	13.0		

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	4.9	0	0	4.9	4.9	0	0	4.7	5.0	5.0	0	0.1	0	0	2.5	4.9	4.7	0.1	0
PLAY	0	4.7	0	0	4.9	4.9	0	0	4.7	4.9	4.9	0	0.1	0	0	2.5	4.9	4.9	4.9	0
REC	0	4.9	0	0	4.9	4.9	0	0	0	4.9	4.9	0	0.1	0	0	2.5	4.9	4.9	4.9	0
F.F	0	4.9	4.9	0	3.3	4.9	0	0	3.2	4.9	4.9	0	0.1	0	0	2.5	4.9	4.6	2.5	0
REW	0	4.9	4.9	0	2.8	4.9	0	0	2.9	4.9	4.9	0	0.1	0	0	2.5	4.9	4.9	2.6	0

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	4.9	5.0	0.2	2.4	1.4	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	0	0	0	2.5	2.5	0	2.4
PLAY	4.9	4.9	2.5	2.4	3.2	2.5	2.5	2.5	0	2.5	2.6	2.5	4.9	0	0	0	2.5	2.5	0	2.7
REC	4.9	4.9	2.5	2.4	0.8	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	3.3	3.5	0	2.5	2.5	0	2.4
F.F	4.9	4.9	1.9	2.4	1.4	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	0	0	0	2.5	2.5	0	2.8
REW	4.9	4.9	2.0	2.4	2.7	2.5	2.5	2.5	0	2.5	2.4	2.6	4.9	0	0	0	2.5	2.5	0	2.4

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	2.4	5.0	1.3	3.5	0	4.7	0	4.9	4.9	0	4.7	4.9	4.9	4.9	4.9	4.9	0	0	0	4.9
PLAY	2.5	4.9	1.2	3.2	3.7	4.7	0	4.9	4.9	0	4.7	4.9	4.9	0.1	4.9	4.9	0	0	0	4.9
REC	2.5	4.9	1.4	3.6	0	4.9	0	4.9	4.9	0	4.7	4.9	4.9	0.1	4.9	4.9	0	0	0	4.9
F.F	2.4	4.9	1.4	3.5	0	4.9	0	4.9	4.9	0	4.7	4.9	4.9	0.1	0	4.9	0	0	0	4.9
REW	2.4	4.9	1.4	3.5	0	4.9	0	4.9	4.9	0	4.7	4.9	4.9	0.1	0	4.9	0	0	0	4.9

REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	4.9	2.0	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	4.9	4.9	0	0	4.7	0	0	4.9	0
PLAY	4.9	0	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	0	0	0	0	4.7	0	4.9	4.9	0
REC	4.9	0	3.2	4.2	4.9	4.8	4.9	4.9	4.9	4.9	0	0	4.9	0	0	4.7	0	0	4.9	0
F.F	4.9	0	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	0	4.9	0	0	0	0	0	4.9	0
REW	4.9	4.9	3.2	4.2	4.9	0	0	4.9	0.1	4.9	0	4.9	4.9	0	0	0	0	0	4.9	0

REF. NO.	IC6001																			
MODE	81	82	83	84																
STOP	0	2.3	–	4.9																
PLAY	0	2.3	–	4.9																
REC	0	2.3	–	4.9																
F.F	0	2.3	–	4.9																
REW	0	2.3	–	4.9																

REF. NO.	IC6002										IC6003									
MODE	1	2	3	4							1	2	3	4						
STOP	1.2	0	4.9	0							2.3	1.2	0.1	0						
PLAY	1.2	0	4.9	0							2.3	1.2	4.9	0						
REC	1.2	0	4.9	0							2.3	1.2	4.9	0						
F.F	1.2	0	4.0	0							2.3	1.2	2.6	0						
REW	1.2	0	4.9	0							2.3	1.2	2.6	0						

SYSTEM CONRTROL & SERVO TRANSISTORs DC VOLTAGE CHART (SP MODE)

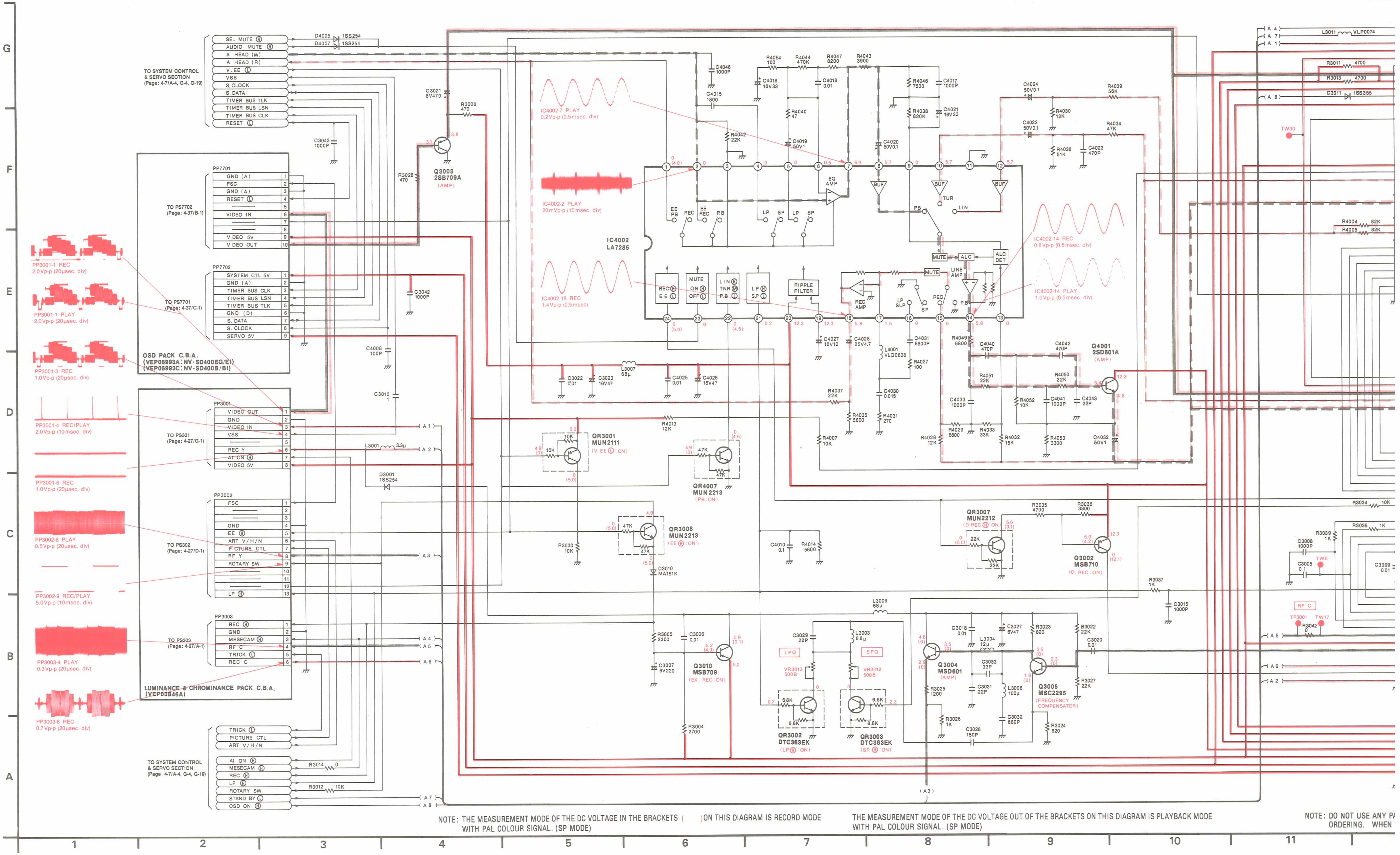
REF. NO.	Q1501			Q6001			Q6002											
MODE	E	C		E	C	B	E	C										
STOP	0	4.7		5.0	−0.4	5.0	0	4.9										
PLAY	0	4.9		4.9	4.9	4.2	0	4.9										
REC	0	4.9		4.9	4.9	4.2	0	4.9										
F.F	0	4.6		4.9	4.9	4.2	0	4.9										
REW	0	4.9		4.9	4.9	4.2	0	4.9										

REF. NO.	QR2002			QR2003						QR2008			QR2009			QR2014		
MODE	E	C	B	1	2	3	4	5		E	C	B	E	C	B	E	C	B
STOP	5.0	0.2	4.9	0	0	3.6	0	3.6		0	0	4.2	0	0	4.2	0	2.7	0
PLAY	4.9	0.2	4.9	0	0	3.6	0	3.6		0	0	4.2	0	0	4.2	0	2.7	0
REC	4.9	0.2	4.9	0	0	3.6	0	3.6		0	0	4.2	0	0	4.2	0	2.7	0
F.F	4.9	0.2	4.9	0	0.8	0	0	0		0	0	4.2	0	0	4.2	0	2.7	0
REW	4.9	0.2	4.9	0	0.8	0	0	0		0	0	4.2	0	0	4.2	0	2.7	0

REF. NO.	QR6001						QR6003											
MODE	1	2	3	4	5		E	C	B									
STOP	0	0	4.9	0	4.7		0	12.9	0									
PLAY	0	0	4.9	0	4.7		0	12.9	0									
REC	0	0	4.9	0	4.7		0	12.9	0									
F.F	13.6	7.3	0	0	0		0	12.9	0									
REW	13.6	7.4	0	0	0		0	12.9	0									

4-4. LUMINANCE/CHROMINANCE & AUDIO SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGN
AUDIO MAIN SIGN


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-7/A-4, G-4, G-19)
SEL MUTE Ⓗ
AUDIO MUTE Ⓗ
A HEAD (W)
A HEAD (R)
V. EE Ⓛ
VSS
S. CLOCK
S. DATA
TIMER BUS TLK
TIMER BUS LSN
TIMER BUS CLK
RESET Ⓛ
D4005 1SS254
D4007 1SS254
TO PS7702 (Page: 4-37/B-1)
PP7701
GND (A)
FSC
GND (A)
RESET Ⓛ
VIDEO IN
VIDEO 5V
VIDEO OUT
PP7702
SYSTEM CTL 5V
GND (A)
TIMER BUS CLK
TIMER BUS LSN
TIMER BUS TLK
GND (D)
S. DATA
S. CLOCK
SERVO 5V
TO PS7701 (Page: 4-37/C-1)
OSD PACK C.B.A. (VEP06993A: NV-SD400EG/EI) (VEP06993C: NV-SD400B/BI)
PP3001-1 REC 2.0Vp-p (20μsec. div)
PP3001-1 PLAY 2.0Vp-p (20μsec. div)
PP3001-3 REC 1.0Vp-p (20μsec. div)
PP3001-4 REC/PLAY 2.0Vp-p (10msec. div)
PP3001-6 REC 1.0Vp-p (20μsec. div)
PP3002-8 PLAY 0.5Vp-p (20μsec. div)
PP3002-9 REC/PLAY 5.0Vp-p (10msec. div)
PP3003-4 PLAY 0.3Vp-p (20μsec. div)
PP3003-6 REC 0.7Vp-p (20μsec. div)
TO PS301 (Page: 4-27/G-1)
PP3001
VIDEO OUT
GND
VIDEO IN
VSS
REC Y
AI ON Ⓗ
VIDEO 5V
TO PS302 (Page: 4-27/D-1)
PP3002
FSC
GND
EE Ⓗ
ART V/H/N
PICTURE CTL
RF Y
ROTARY SW
LP Ⓗ
TO PS303 (Page: 4-27/A-1)
PP3003
REC Ⓗ
GND
MESECAM Ⓗ
RF C
TRICK Ⓛ
REC C
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03B46A)
TRICK Ⓛ
PICTURE CTL
ART V/H/N
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-7/A-4, G-4, G-19)
AI ON Ⓗ
MESECAM Ⓗ
REC Ⓗ
LP Ⓗ
ROTARY SW
STAND BY Ⓛ
OSD ON Ⓗ
R3014 0
R3012 10K
Q3003 2SB709A (AMP)
IC4002 LA7285
IC4002-7 PLAY 0.2Vp-p (0.5msec. div)
IC4002-2 PLAY 20mVp-p (10msec. div)
IC4002-18 REC 1.4Vp-p (0.5msec)
IC4002-14 REC 0.8Vp-p (0.5msec. div)
IC4002-14 PLAY 1.0Vp-p (0.5msec. div)
EQ AMP
BUF
MUTE
ALC
ALC DET
LINE AMP
REC AMP
RIPPLE FILTER
Q4001 2SD601A (AMP)
QR3001 MUN2111 (V. EE Ⓛ: ON)
QR4007 MUN2213 (PB: ON)
QR3008 MUN2213 (EE Ⓗ: ON)
Q3010 MSB709 (EX. REC: ON)
QR3007 MUN2212 (D. REC Ⓗ: ON)
Q3002 MSB710 (D. REC: ON)
QR3002 DTC363EK (LP Ⓗ: ON)
QR3003 DTC363EK (SP Ⓗ: ON)
Q3004 MSD601 (AMP)
Q3005 MSC2295 (FREQUENCY COMPENSATOR)
LPQ
SPQ
VR3013 500B
VR3012 500B
D3001 1SS254
D3010 MA151K
L3011 VLP0074
D3011 1SS355
TW30
TW6
TP3001
TW17
RF C

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

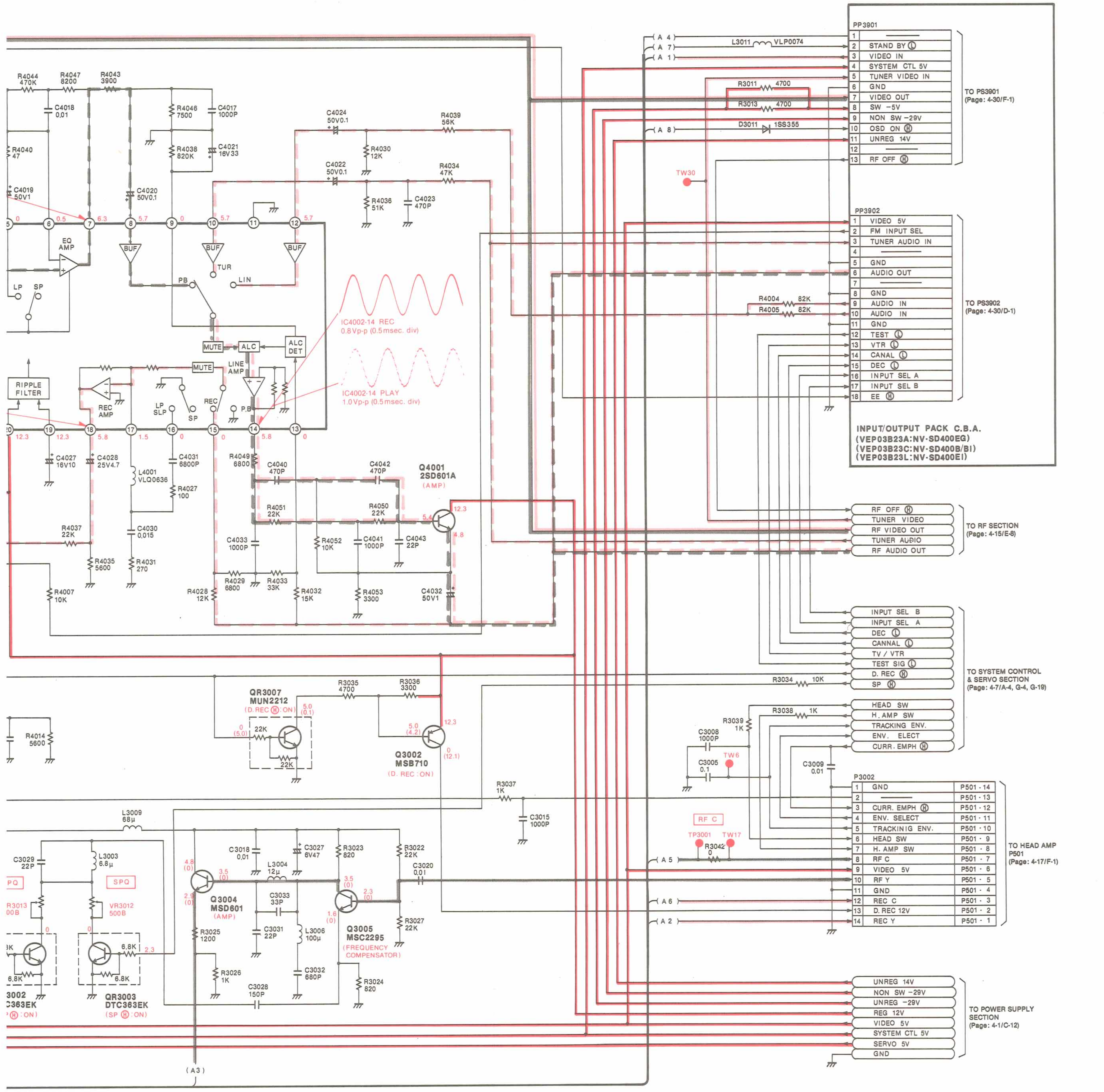
NOTE: DO NOT USE ANY PA ORDERING. WHEN

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN REC MODE

AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

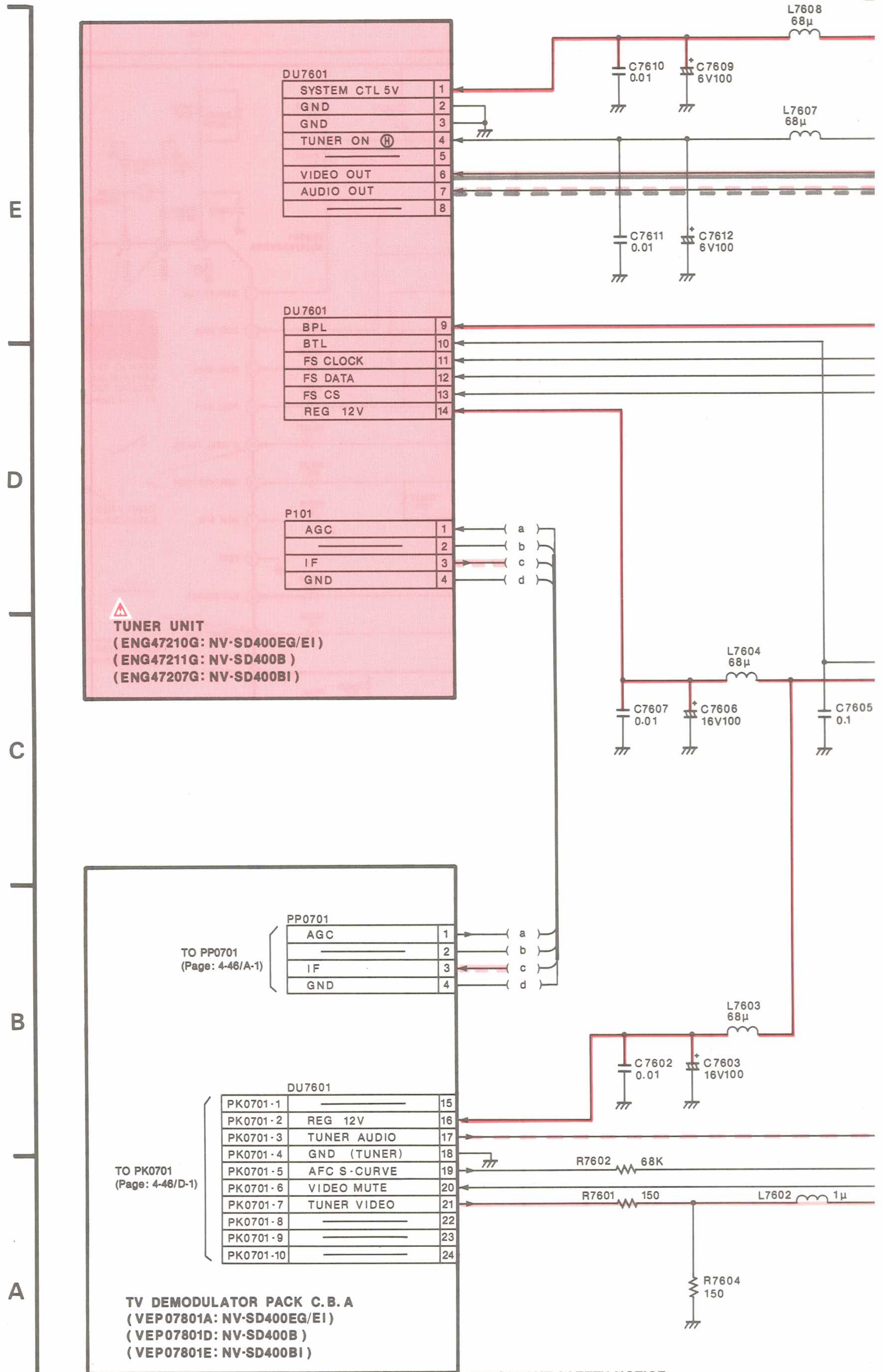

PP3901
STAND BY
VIDEO IN
SYSTEM CTL 5V
TUNER VIDEO IN
GND
VIDEO OUT
SW -5V
NON SW -29V
OSD ON
UNREG 14V
RF OFF
TO PS3901 (Page: 4-30/F-1)
PP3902
VIDEO 5V
FM INPUT SEL
TUNER AUDIO IN
GND
AUDIO OUT
GND
AUDIO IN
AUDIO IN
GND
TEST
VTR
CANAL
DEC
INPUT SEL A
INPUT SEL B
EE
TO PS3902 (Page: 4-30/D-1)
INPUT/OUTPUT PACK C.B.A.
(VEP03B23A:NV-SD400EG)
(VEP03B23C:NV-SD400B/BI)
(VEP03B23L:NV-SD400EI)
RF OFF
TUNER VIDEO
RF VIDEO OUT
TUNER AUDIO
RF AUDIO OUT
TO RF SECTION (Page: 4-15/E-8)
INPUT SEL B
INPUT SEL A
DEC
CANNAL
TV / VTR
TEST SIG
D. REC
SP
HEAD SW
H. AMP SW
TRACKING ENV.
ENV. ELECT
CURR. EMPH
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-7/A-4, G-4, G-19)
P3002
GND
CURR. EMPH
ENV. SELECT
TRACKING ENV.
HEAD SW
H. AMP SW
RF C
VIDEO 5V
RF Y
GND
REC C
D. REC 12V
REC Y
TO HEAD AMP P501 (Page: 4-17/F-1)
UNREG 14V
NON SW -29V
UNREG -29V
REG 12V
VIDEO 5V
SYSTEM CTL 5V
SERVO 5V
GND
TO POWER SUPPLY SECTION (Page: 4-1/C-12)
IC4002-14 REC 0.8Vp-p (0.5msec. div)
IC4002-14 PLAY 1.0Vp-p (0.5msec. div)
Q4001 2SD601A (AMP)
QR3007 MUN2212 (D.REC H: ON)
Q3002 MSB710 (D. REC : ON)
Q3004 MSD601 (AMP)
Q3005 MSC2295 (FREQUENCY COMPENSATOR)
QR3003 DTC363EK (SP H: ON)
EQ AMP
REC AMP
LINE AMP
ALC DET
RIPPLE FILTER
MUTE
BUF

ORD MODE

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

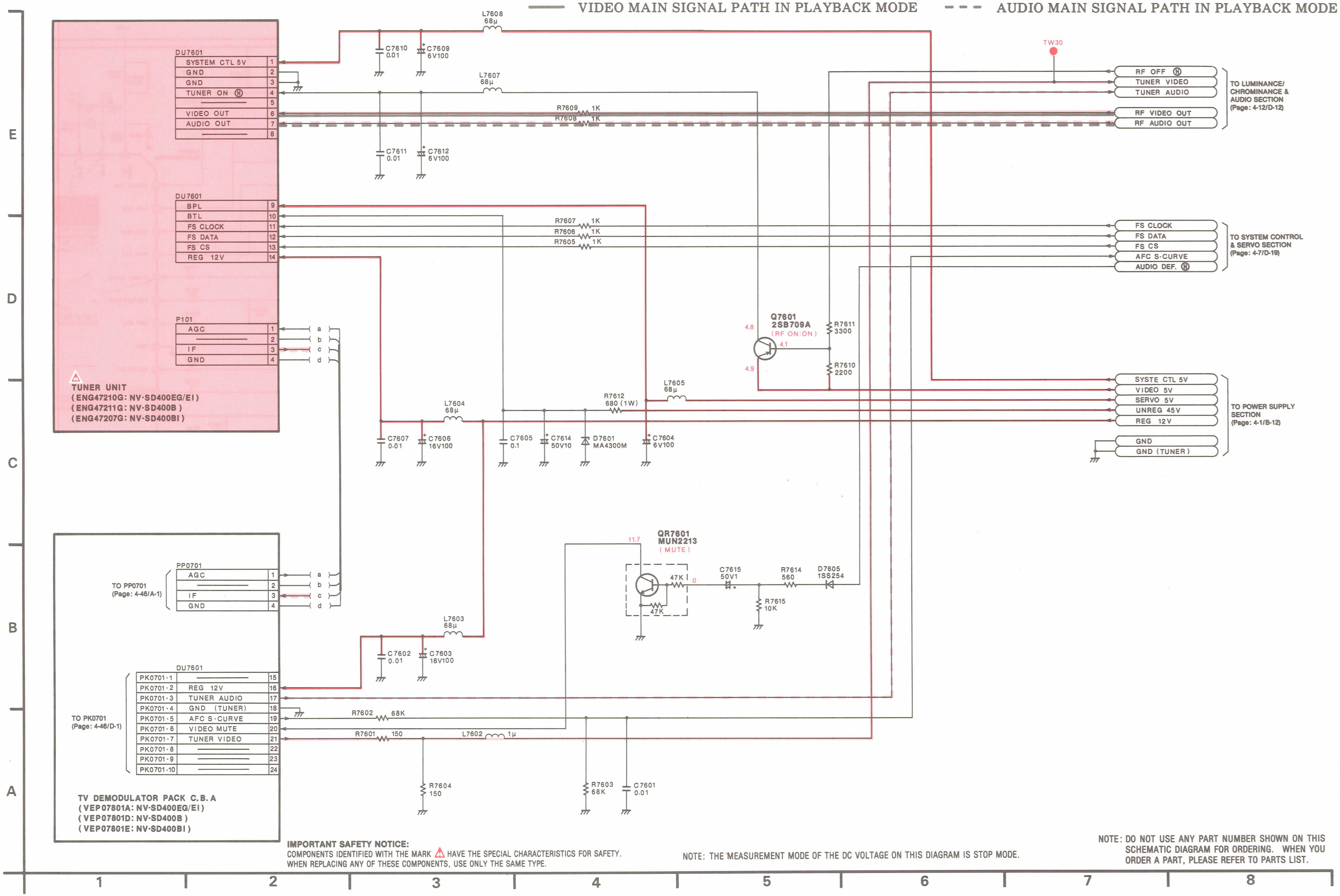
4-5. RF SECTION IN MAIN SCHEMATIC DIAGRAM


DU7601
SYSTEM CTL 5V
GND
GND
TUNER ON
VIDEO OUT
AUDIO OUT
BPL
BTL
FS CLOCK
FS DATA
FS CS
REG 12V
P101
AGC
IF
GND
TUNER UNIT
(ENG47210G: NV-SD400EG/EI)
(ENG47211G: NV-SD400B)
(ENG47207G: NV-SD400BI)
TO PP0701 (Page: 4-46/A-1)
PP0701
AGC
IF
GND
TO PK0701 (Page: 4-46/D-1)
REG 12V
TUNER AUDIO
GND (TUNER)
AFC S-CURVE
VIDEO MUTE
TUNER VIDEO
TV DEMODULATOR PACK C.B.A
(VEP07801A: NV-SD400EG/EI)
(VEP07801D: NV-SD400B)
(VEP07801E: NV-SD400BI)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHAR
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME T

4-5. RF SECTION IN MAIN SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



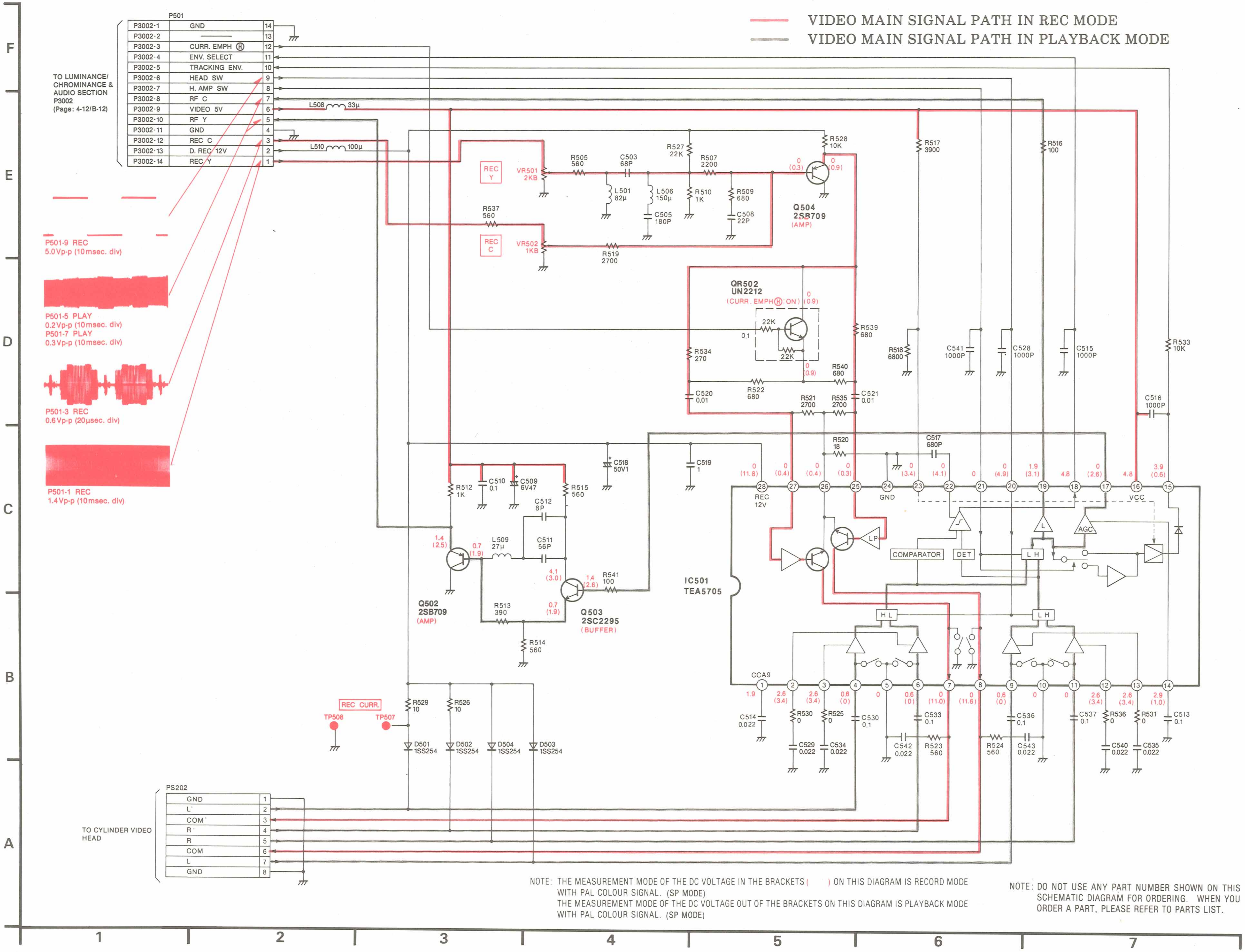
DU7601
SYSTEM CTL 5V
GND
GND
TUNER ON Ⓗ
VIDEO OUT
AUDIO OUT
BPL
BTL
FS CLOCK
FS DATA
FS CS
REG 12V
P101
AGC
IF
GND
a
b
c
d
TUNER UNIT
(ENG47210G: NV-SD400EG/EI)
(ENG47211G: NV-SD400B)
(ENG47207G: NV-SD400BI)
L7608 68µ
C7610 0.01
C7609 6V100
L7607 68µ
R7609 1K
R7608 1K
C7611 0.01
C7612 6V100
R7607 1K
R7606 1K
R7605 1K
TW30
RF OFF Ⓗ
TUNER VIDEO
TUNER AUDIO
RF VIDEO OUT
RF AUDIO OUT
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION (Page: 4-12/D-12)
FS CLOCK
FS DATA
FS CS
AFC S-CURVE
AUDIO DEF. Ⓗ
TO SYSTEM CONTROL & SERVO SECTION (Page: 4-7/D-19)
Q7601 2SB709A (RF ON:ON)
4.8
4.1
4.9
R7611 3300
R7610 2200
SYSTE CTL 5V
VIDEO 5V
SERVO 5V
UNREG 45V
REG 12V
GND
GND (TUNER)
TO POWER SUPPLY SECTION (Page: 4-1/B-12)
L7605 68µ
R7612 680 (1W)
L7604 68µ
C7607 0.01
C7606 16V100
C7605 0.1
C7614 50V10
D7601 MA4300M
C7604 6V100
QR7601 MUN2213 (MUTE)
11.7
47K
0
47K
C7615 50V1
R7614 560
D7605 1SS254
R7615 10K
PP0701
AGC
IF
GND
TO PP0701 (Page: 4-46/A-1)
L7603 68µ
C7602 0.01
C7603 16V100
DU7601
PK0701-1
PK0701-2 REG 12V
PK0701-3 TUNER AUDIO
PK0701-4 GND (TUNER)
PK0701-5 AFC S-CURVE
PK0701-6 VIDEO MUTE
PK0701-7 TUNER VIDEO
PK0701-8
PK0701-9
PK0701-10
TO PK0701 (Page: 4-46/D-1)
R7602 68K
R7601 150
L7602 1µ
R7604 150
R7603 68K
C7601 0.01
TV DEMODULATOR PACK C.B.A
(VEP07801A: NV-SD400EG/EI)
(VEP07801D: NV-SD400B)
(VEP07801E: NV-SD400BI)
E
D
C
B
A
1
2
3
4
5
6
7
8

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

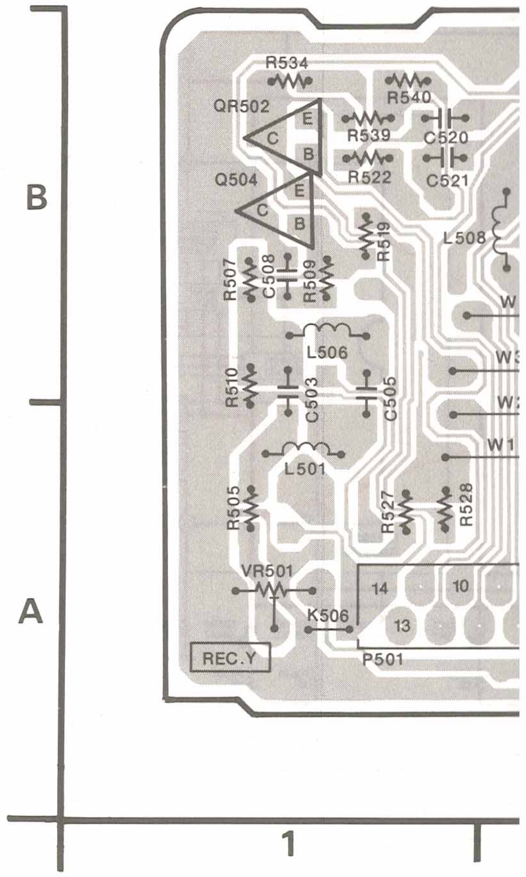
4-6. HEAD AMP SCHEMATIC DIAGRAM


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
F
E
D
C
B
A
1
2
3
4
5
6
7
P501
P3002-1 GND 14
P3002-2 13
P3002-3 CURR. EMPH Ⓗ 12
P3002-4 ENV. SELECT 11
P3002-5 TRACKING ENV. 10
P3002-6 HEAD SW 9
P3002-7 H. AMP SW 8
P3002-8 RF C 7
P3002-9 VIDEO 5V 6
P3002-10 RF Y 5
P3002-11 GND 4
P3002-12 REC C 3
P3002-13 D. REC 12V 2
P3002-14 REC Y 1
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION P3002 (Page: 4-12/B-12)
L508 33µ
L510 100µ
P501-9 REC 5.0Vp-p (10msec. div)
P501-5 PLAY 0.2Vp-p (10msec. div)
P501-7 PLAY 0.3Vp-p (10msec. div)
P501-3 REC 0.6Vp-p (20µsec. div)
P501-1 REC 1.4Vp-p (10msec. div)
REC Y
VR501 2KB
REC C
VR502 1KB
R537 560
R505 560
C503 68P
L501 82µ
L506 150µ
C505 180P
R527 22K
R507 2200
R510 1K
R509 680
C508 22P
R519 2700
R528 10K
Q504 2SB709 (AMP)
QR502 UN2212 (CURR. EMPH Ⓗ : ON)
22K
0.1
R534 270
C520 0.01
R522 680
R539 680
R540 680
R521 2700
R535 2700
C521 0.01
R517 3900
R516 100
R518 6800
C541 1000P
C528 1000P
C515 1000P
R533 10K
C516 1000P
R520 18
C517 680P
C518 50V1
C519 1
R512 1K
C510 0.1
C509 6V47
R515 560
C512 8P
L509 27µ
C511 56P
Q502 2SB709 (AMP)
R513 390
R514 560
R541 100
Q503 2SC2295 (BUFFER)
IC501 TEA5705
REC 12V
GND
VCC
COMPARATOR
DET
LP
AGC
H L
L H
CCA9
R529 10
R526 10
REC CURR.
TP508
TP507
D501 1SS254
D502 1SS254
D504 1SS254
D503 1SS254
C514 0.022
R530 0
R525 0
C529 0.022
C534 0.022
C530 0.1
C542 0.022
R523 560
C533 0.1
R524 560
C543 0.022
C536 0.1
C537 0.1
R536 0
R531 0
C513 0.1
C540 0.022
C535 0.022
PS202
GND 1
L' 2
COM' 3
R' 4
R 5
COM 6
L 7
GND 8
TO CYLINDER VIDEO HEAD

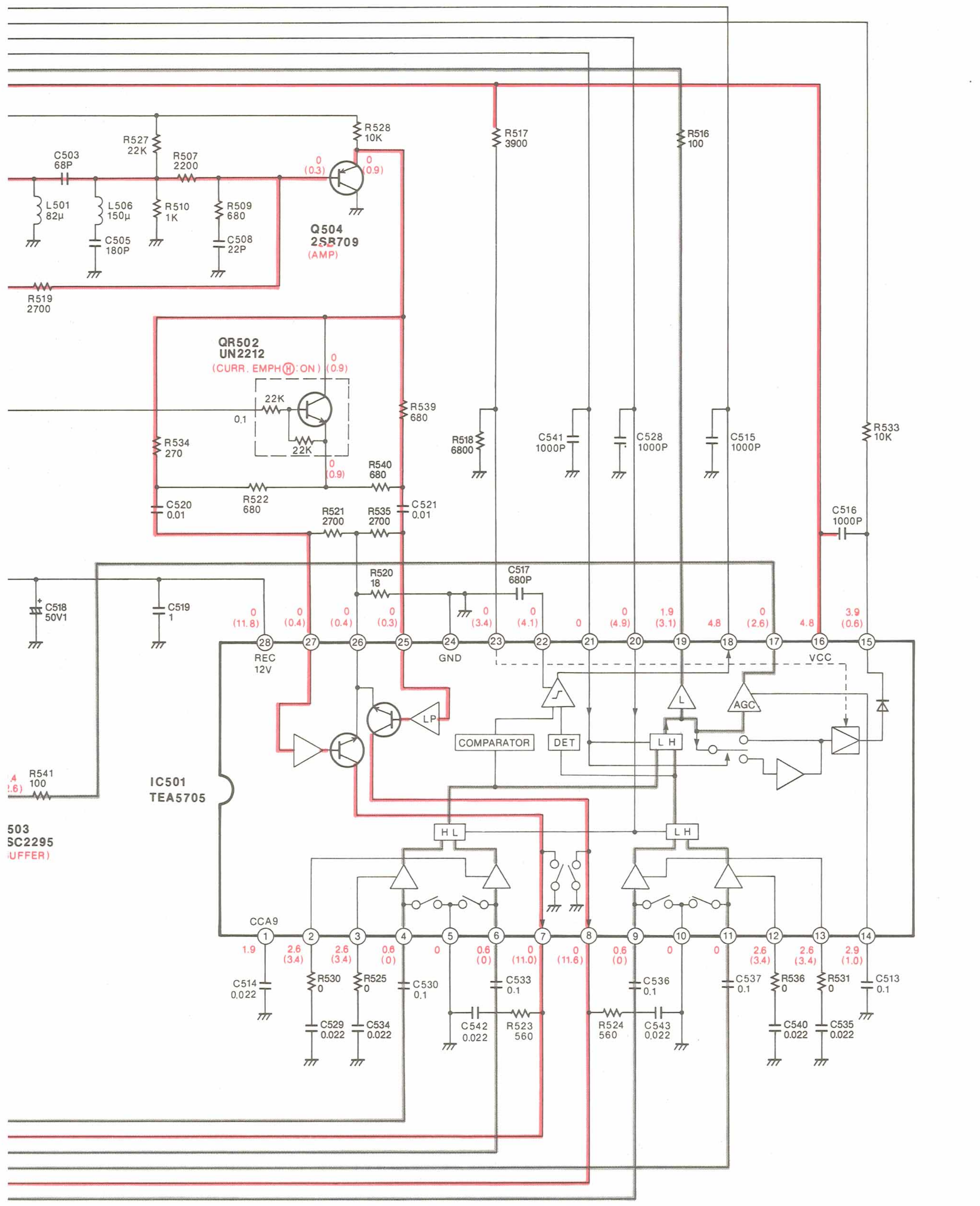
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-7. HEAD AMP C.B.A. (VE


B
A
1
R534
R540
QR502
R539
C520
R522
C521
Q504
R519
L508
R507
C508
R509
L506
R510
C503
C505
L501
R505
R527
R528
VR501
K506
14
10
13
REC.Y
P501

🟥 VIDEO MAIN SIGNAL PATH IN REC MODE
▨ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE


C503 68P
L501 82µ
L506 150µ
C505 180P
R527 22K
R507 2200
R510 1K
R509 680
C508 22P
R528 10K
Q504 2SB709 (AMP)
R519 2700
R517 3900
R516 100
QR502 UN2212 (CURR. EMPH Ⓗ : ON)
22K
0.1
R534 270
R539 680
R540 680
R522 680
C520 0.01
R521 2700
R535 2700
C521 0.01
R518 6800
C541 1000P
C528 1000P
C515 1000P
R533 10K
C516 1000P
R520 18
C517 680P
C518 50V1
C519 1
REC 12V
GND
VCC
COMPARATOR
DET
AGC
LP
R541 100
503 SC2295 UFFER)
IC501 TEA5705
CCA9
C514 0.022
R530 0
R525 0
C530 0.1
C529 0.022
C534 0.022
C542 0.022
C533 0.1
R523 560
R524 560
C543 0.022
C536 0.1
C537 0.1
R536 0
R531 0
C513 0.1
C540 0.022
C535 0.022

ASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
L COLOUR SIGNAL. (SP MODE)
ASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE
L COLOUR SIGNAL. (SP MODE)

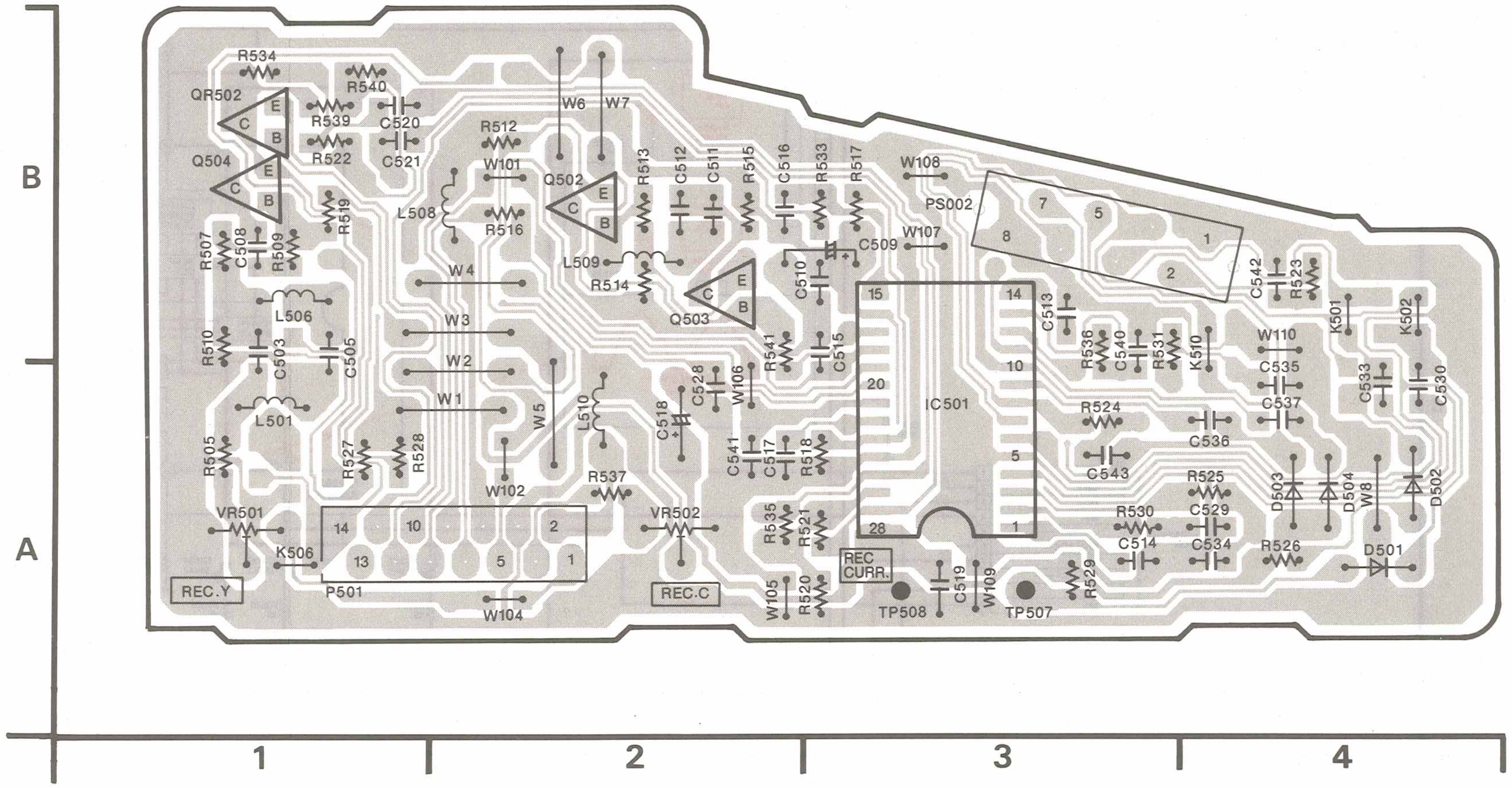
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4 5 6 7

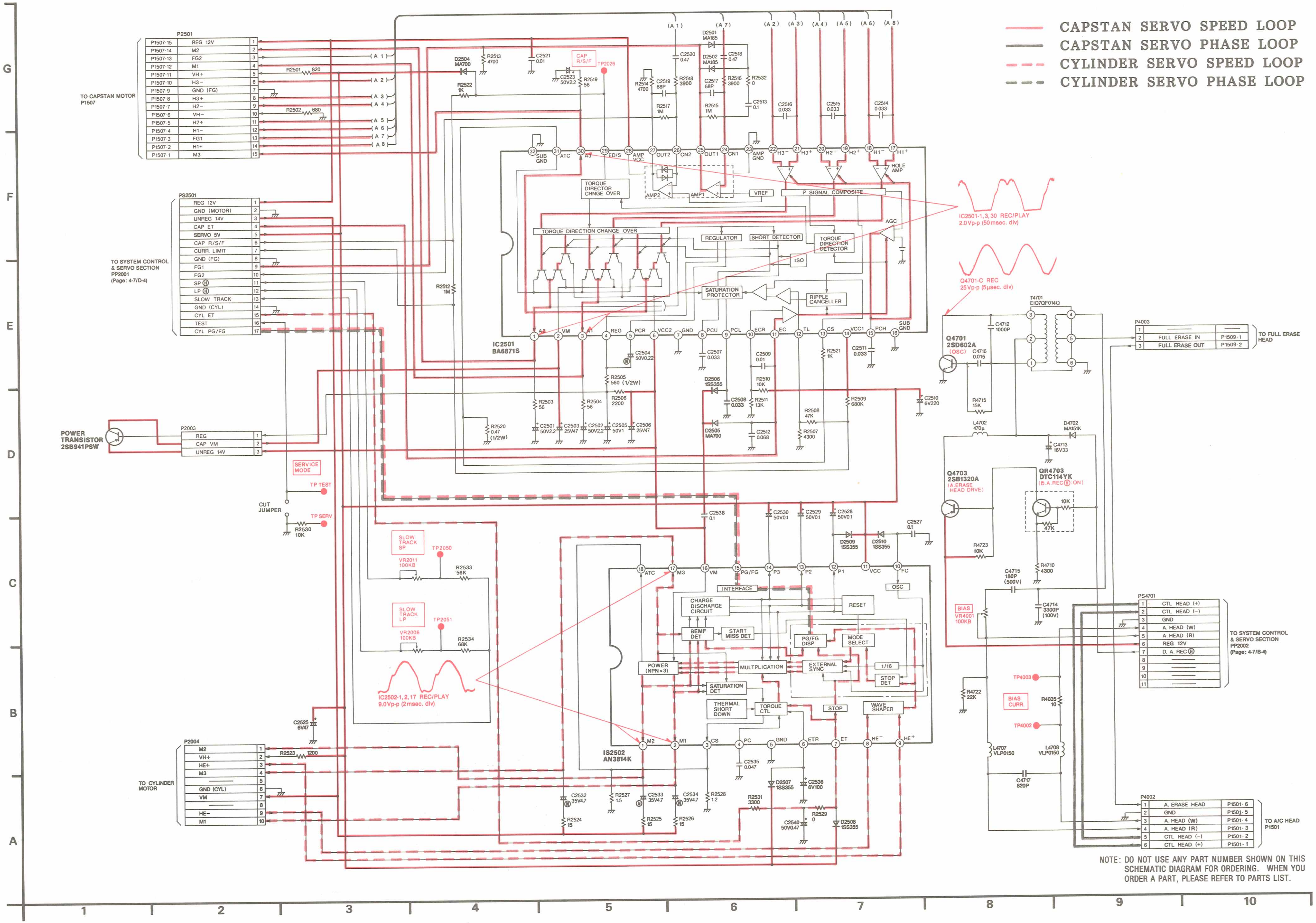
4-7. HEAD AMP C.B.A. (VEP05182G)

HEAD AMP C.B.A.	
Transistor	
Q502	B-2
Q503	B-2
Q504	B-1
Transistor & Resistor	
QR502	B-1
Integrated Circuit	
IC501	A-3
Test Point	
TP507	A-3
TP508	A-3
Adjustment	
VR501	A-1
VR502	A-2
Connector	
P501	A-1
PS202	B-3

ADDRESS INFORMATION


B
A
1
2
3
4
R534
QR502
R540
R539
C520
R522
C521
Q504
R512
W101
R516
W6
W7
Q502
L508
R513
C512
C511
R515
C516
R533
R517
W108
PS002
W107
C509
L509
R514
Q503
R507
C508
R509
R519
W4
W3
W2
W1
W5
L506
R510
C503
C505
L501
R505
R527
R528
W102
L510
C518
C528
W106
R541
C510
C515
IC501
R537
VR501
K506
P501
REC.Y
VR502
REC.C
R535
R521
REC CURR.
TP508
C519
W109
TP507
R529
W105
R520
W104
C541
C517
R518
C513
R536
C540
R531
K510
C542
R523
K501
K502
W110
C535
C537
C533
C530
R524
C536
C543
R525
R530
C529
C514
C534
R526
D503
D504
W8
D502
D501

4-8. MOTOR DRIVE & SUB AUDIO PACK SCHEMATIC DIAGRAM


CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
P2501
TO CAPSTAN MOTOR P1507
P1507-15 REG 12V
P1507-14 M2
P1507-13 FG2
P1507-12 M1
P1507-11 VH+
P1507-10 H3−
P1507-9 GND (FG)
P1507-8 H3+
P1507-7 H2−
P1507-6 VH−
P1507-5 H2+
P1507-4 H1−
P1507-3 FG1
P1507-2 H1+
P1507-1 M3
PS2501
TO SYSTEM CONTROL & SERVO SECTION PP2001 (Page: 4-7/D-4)
REG 12V
GND (MOTOR)
UNREG 14V
CAP ET
SERVO 5V
CAP R/S/F
CURR LIMIT
GND (FG)
FG1
FG2
SP Ⓗ
LP Ⓗ
SLOW TRACK
GND (CYL)
CYL ET
TEST
CYL PG/FG
POWER TRANSISTOR 2SB941PSW
P2003
REG
CAP VM
UNREG 14V
SERVICE MODE
TP TEST
CUT JUMPER
TP SERV
R2530 10K
SLOW TRACK SP
TP2050
VR2011 100KB
R2533 56K
SLOW TRACK LP
TP2051
VR2006 100KB
R2534 68K
IC2502-1, 2, 17 REC/PLAY 9.0Vp-p (2msec. div)
C2525 6V47
P2004
TO CYLINDER MOTOR
M2
VH+
HE+
M3
GND (CYL)
VM
HE−
M1
R2523 1200
IC2501 BA6871S
TORQUE DIRECTOR CHNGE OVER
TORQUE DIRECTION CHANGE OVER
AMP2
AMP1
VREF
P SIGNAL COMPOSITE
HOLE AMP
AGC
REGULATOR
SHORT DETECTOR
TORQUE DIRECTION DETECTOR
ISO
SATURATION PROTECTOR
RIPPLE CANCELLER
SUB GND
ATC
ED/S
AMP VCC
OUT2
CN2
OUT1
CN1
AMP GND
VM
REG
PCR
VCC2
GND
PCU
PCL
ECR
EC
TL
CS
VCC1
PCH
D2504 MA700
R2513 4700
C2521 0.01
CAP R/S/F
TP2026
R2501 820
R2502 680
R2522 1K
C2523 50V2.2
R2519 56
R2514 4700
C2519 68P
R2518 3900
R2517 1M
D2501 MA185
D2502 MA185
C2520 0.47
C2518 0.47
C2517 68P
R2516 3900
R2532 0
R2515 1M
C2513 0.1
C2516 0.033
C2515 0.033
C2514 0.033
R2512 1M
C2504 50V0.22
C2507 0.033
C2509 0.01
R2521 1K
C2511 0.033
R2505 560 (1/2W)
R2506 2200
D2506 1SS355
R2510 10K
C2508 0.033
R2511 13K
R2509 680K
C2510 6V220
R2503 56
R2504 56
R2520 0.47 (1/2W)
C2501 50V2.2
C2503 25V47
C2502 50V2.2
C2505 50V1
C2506 25V47
D2505 MA700
C2512 0.068
R2508 47K
R2507 4300
C2538 0.1
C2530 50V0.1
C2529 50V0.1
C2528 50V0.1
C2527 0.1
D2509 1SS355
D2510 1SS355
IS2502 AN3814K
INTERFACE
CHARGE DISCHARGE CIRCUIT
RESET
OSC
BEMF DET
START MISS DET
PG/FG DISP
MODE SELECT
POWER (NPN×3)
MULTPLICATION
EXTERNAL SYNC
1/16
STOP DET
SATURATION DET
THERMAL SHORT DOWN
TORQUE CTL
STOP
WAVE SHAPER
ATC
M3
VM
PG/FG
P3
P2
P1
VCC
FC
M2
M1
CS
PC
GND
ETR
ET
HE−
HE+
C2535 0.047
D2507 1SS355
C2536 6V100
C2532 35V4.7
R2527 1.5
C2533 35V4.7
C2534 35V4.7
R2528 1.2
R2531 3300
R2529 0
R2524 15
R2525 15
R2526 15
C2540 50V0.47
D2508 1SS355
IC2501-1, 3, 30 REC/PLAY 2.0Vp-p (50msec. div)
Q4701-C REC 25Vp-p (5μsec. div)
T4701 EIQ7QF014Q
C4712 1000P
Q4701 2SD602A (OSC)
C4716 0.015
P4003
FULL ERASE IN P1509-1
FULL ERASE OUT P1509-2
TO FULL ERASE HEAD
R4715 15K
L4702 470μ
D4702 MA151K
C4713 16V33
Q4703 2SB1320A (A.ERASE HEAD DRIVE)
QR4703 DTC114YK (D.A.REC Ⓗ ON)
10K
47K
R4723 10K
C4715 180P (500V)
R4710 4300
C4714 3300P (100V)
BIAS VR4001 100KB
PS4701
CTL HEAD (+)
CTL HEAD (−)
GND
A. HEAD (W)
A. HEAD (R)
REG 12V
D. A. REC Ⓗ
TO SYSTEM CONTROL & SERVO SECTION PP2002 (Page: 4-7/B-4)
TP4003
R4722 22K
BIAS CURR.
R4035 10
TP4002
L4707 VLP0150
L4708 VLP0150
C4717 820P
P4002
A. ERASE HEAD P1501-6
GND P1501-5
A. HEAD (W) P1501-4
A. HEAD (R) P1501-3
CTL HEAD (−) P1501-2
CTL HEAD (+) P1501-1
TO A/C HEAD P1501

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

MOTOR D

REF. NO. / MODE	1
STOP	0.6
PLAY	2.6
REC	2.7
F.F	7.5
REW	7.0

REF. NO. / MODE	21
STOP	2.2
PLAY	2.3
REC	2.3
F.F	2.3
REW	2.3

REF. NO. / MODE	1
STOP	13.1
PLAY	13.8
REC	13.7
F.F	13.8
REW	13.8

MOTOR D

REF. NO. / MODE	1
STOP	12.3
PLAY	12.3
REC	12.3
F.F	12.3
REW	12.3

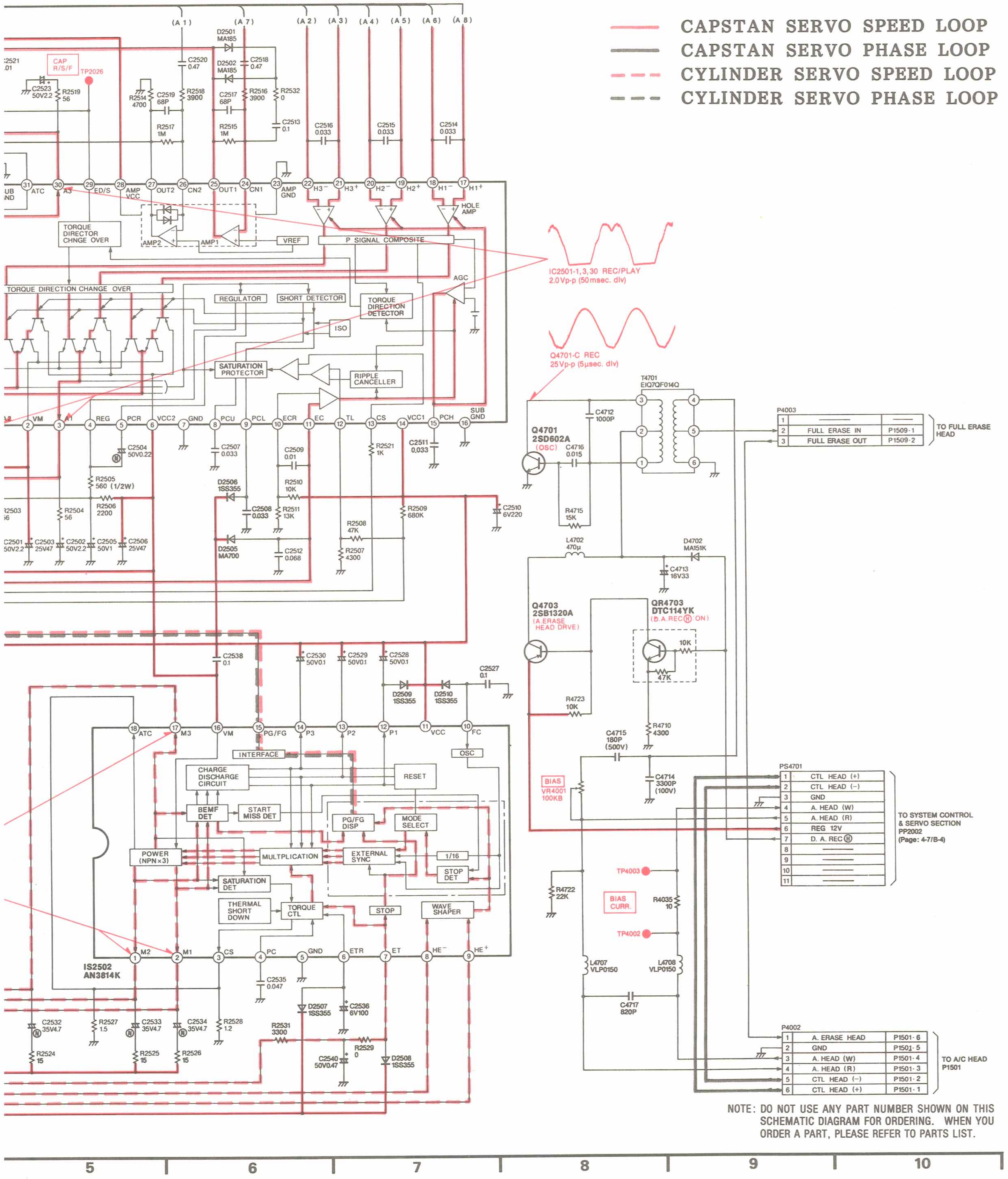
REF. NO. / MODE	1
STOP	0
PLAY	0
REC	3.5
F.F	0
REW	0

MOTOR D

REF. NO. / MODE	E
STOP	0
PLAY	0
REC	0
F.F	0
REW	0

REF. NO. / MODE	E
STOP	0
PLAY	0
REC	4.1
F.F	0
REW	0

IAGRAM



CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE LOOP
CYLINDER SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
(A1)
(A7)
(A2)
(A3)
(A4)
(A5)
(A6)
(A8)
CAP R/S/F
TP2026
TORQUE DIRECTOR CHNGE OVER
TORQUE DIRECTION CHANGE OVER
AMP2
AMP1
VREF
P SIGNAL COMPOSITE
HOLE AMP
AGC
REGULATOR
SHORT DETECTOR
TORQUE DIRECTION DETECTOR
ISO
SATURATION PROTECTOR
RIPPLE CANCELLER
ATC
ED/S
AMP VCC
OUT2
CN2
OUT1
CN1
AMP GND
H3⁻
H3⁺
H2⁻
H2⁺
H1⁻
H1⁺
VM
REG
PCR
VCC2
GND
PCU
PCL
ECR
EC
TL
CS
VCC1
PCH
SUB GND
IC2501-1,3,30 REC/PLAY
2.0Vp-p (50msec. div)
Q4701-C REC
25Vp-p (5μsec. div)
Q4701
2SD602A
(OSC)
Q4703
2SB1320A
(A.ERASE HEAD DRIVE)
QR4703
DTC114YK
(D.A.REC Ⓗ ON)
T4701
EIQ7QF014Q
D4702
MA151K
L4702
470μ
BIAS
VR4001
100KB
BIAS CURR.
TP4003
TP4002
L4707
VLP0150
L4708
VLP0150
P4003
FULL ERASE IN
FULL ERASE OUT
P1509-1
P1509-2
TO FULL ERASE HEAD
PS4701
CTL HEAD (+)
CTL HEAD (−)
GND
A. HEAD (W)
A. HEAD (R)
REG 12V
D. A. REC Ⓗ
TO SYSTEM CONTROL & SERVO SECTION
PP2002
(Page: 4-7/B-4)
P4002
A. ERASE HEAD
GND
A. HEAD (W)
A. HEAD (R)
CTL HEAD (−)
CTL HEAD (+)
P1501-6
P1501-5
P1501-4
P1501-3
P1501-2
P1501-1
TO A/C HEAD
P1501
IS2502
AN3814K
M3
PG/FG
P3
P2
P1
VCC
FC
INTERFACE
OSC
CHARGE DISCHARGE CIRCUIT
RESET
BEMF DET
START MISS DET
PG/FG DISP
MODE SELECT
POWER (NPN×3)
MULTIPLICATION
EXTERNAL SYNC
1/16
STOP DET
SATURATION DET
THERMAL SHORT DOWN
TORQUE CTL
STOP
WAVE SHAPER
M2
M1
PC
ETR
ET
HE⁻
HE⁺
5
6
7
8
9
10

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

MOTOR DRIVE & SUB AUDIO PACK ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2501																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0.6	4.4	0.6	13.2	0.1	13.9	0	4.5	0.7	2.8	0.2	0.4	0	4.9	1.5	0	2.3	2.3	2.3	2.2
PLAY	2.6	4.3	2.6	12.4	1.9	13.6	0	0.7	0.7	2.8	2.5	0.4	0.1	4.9	1.5	0	2.3	2.3	2.3	2.3
REC	2.7	4.3	2.7	12.4	2.0	13.6	0	0.7	0.7	2.8	2.5	0.4	0.1	5.0	1.5	0	2.3	2.3	2.3	2.3
F.F	7.5	13.4	7.5	4.3	11.6	13.5	0.1	0.8	0.8	2.8	2.0	0.5	0.2	4.9	1.5	0	2.3	2.3	2.3	2.3
REW	7.0	13.5	7.0	6.9	11.7	13.6	0	0.7	0.8	2.8	2.3	0.5	0.1	4.9	1.5	0	2.3	2.3	2.3	2.3

REF. NO.	IC2501											
MODE	21	22	23	24	25	26	27	28	29	30	31	32
STOP	2.2	2.3	0	6.3	6.3	6.3	6.3	12.3	2.0	0.6	0	0
PLAY	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	0	2.6	0	0
REC	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	0	2.6	0.1	0
F.F	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	0	7.5	0.2	0
REW	2.3	2.3	0	6.3	6.3	6.3	6.3	12.3	4.9	7.4	0.2	0

REF. NO.	IC2502																	
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
STOP	13.1	13.1	0.1	0.6	0	2.5	2.4	1.1	1.0	2.6	4.9	3.7	3.6	3.7	1.1	14.4	14.2	0.1
PLAY	13.8	12.8	0.2	0.6	0	2.5	2.4	1.1	1.0	2.7	4.9	3.7	3.7	3.7	1.1	14.1	14.0	0.2
REC	13.7	13.7	0.2	0.6	0	2.5	2.4	1.1	1.0	2.7	4.9	3.8	3.7	3.7	1.1	14.0	13.7	0.2
F.F	13.8	13.8	0.1	0.6	0	2.5	2.4	1.1	1.0	2.7	4.9	3.8	3.7	3.7	1.1	14.0	13.7	0.1
REW	13.8	13.8	0.2	0.6	0	2.5	2.4	1.1	1.0	2.7	4.9	3.7	3.7	3.7	1.1	14.0	13.7	0.2

MOTOR DRIVE & SUB AUDIO PACK PINs DC VOLTAGE CHART (SP MODE)

REF. NO.	PS2501																
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
STOP	12.3	0	13.8	0.2	4.9	2.0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	5.0	1.4
PLAY	12.3	0	13.6	2.5	4.9	0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4
REC	12.3	0	13.6	2.5	4.9	0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4
F.F	12.3	0	13.5	2.1	4.9	0	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4
REW	12.3	0	13.5	2.1	4.9	4.9	4.9	0	6.3	6.3	4.4	0	0	0	2.4	4.9	1.4

REF. NO.	PS4701										
MODE	1	2	3	4	5	6	7	8	9	10	11
STOP	0	0	0	0	0	12.3	0	0	0	4.9	0
PLAY	0	0	0	0	0	12.3	0	0	0	0	4.9
REC	3.5	3.5	0	0	0	12.3	4.9	4.7	0	4.9	0
F.F	0	0	0	0	0	12.3	0	0	0	4.9	0
REW	0	0	0	0	0	12.3	0	0	0	4.9	0

MOTOR DRIVE & SUB AUDIO PACK TRANSISTORs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q4701			Q4703		
MODE	E	C	B	E	C	B
STOP	0	0.2	0.2	12.3	0.3	12.3
PLAY	0	0.3	0.3	12.3	0.3	12.3
REC	0	11.3	−1.4	12.3	11.9	11.9
F.F	0	0.3	0.3	12.3	0.3	12.3
REW	0	0.3	0.3	12.3	0.3	12.3

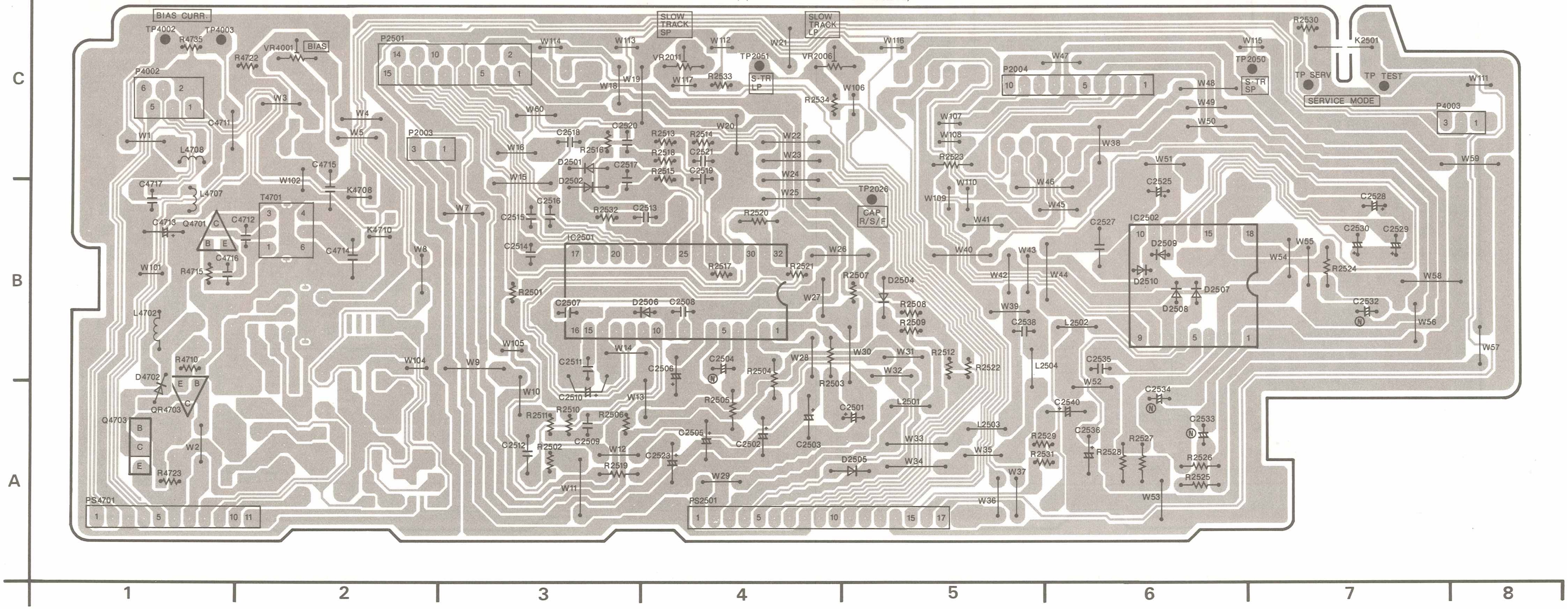
REF. NO.	QR4703		
MODE	E	C	B
STOP	0	12.3	0
PLAY	0	12.3	0
REC	4.1	11.5	4.9
F.F	0	12.3	0
REW	0	12.3	0

4-9. MOTOR DRIVE & SUB AUDIO PACK C.B.A. (VEP04469E)

MOTOR DRIVE & SUB AUDIO PACK C.B.A.			
Transistor		**Adjustment**	
Q4701	B-1	VR2006	C-4
Q4703	A-1	VR2011	C-4
Transistor & Resistor		VR4001	C-2
QR4703	A-1	**Connector**	
Integrated Circuit		P2003	C-2
IC2501	B-3	P2004	C-5
IC2502	B-6	P2501	C-2
Test Point		P4002	C-1
TP2026	B-5	P4003	C-7
TP2050	C-7	PS2501	A-4
TP2051	C-4	PS4701	A-1
TP4002	C-1		
TP4003	C-1		
TP SERV	C-7		
TP TEST	C-7		

ADDRESS INFORMATION

MOTOR DRIVE & SUB AUDIO PACK C.B.A. (VEP04469C: NV-SD400A) (VEP04469D: NV-SD400EA) (VEP04469B: NV-SD400BA)

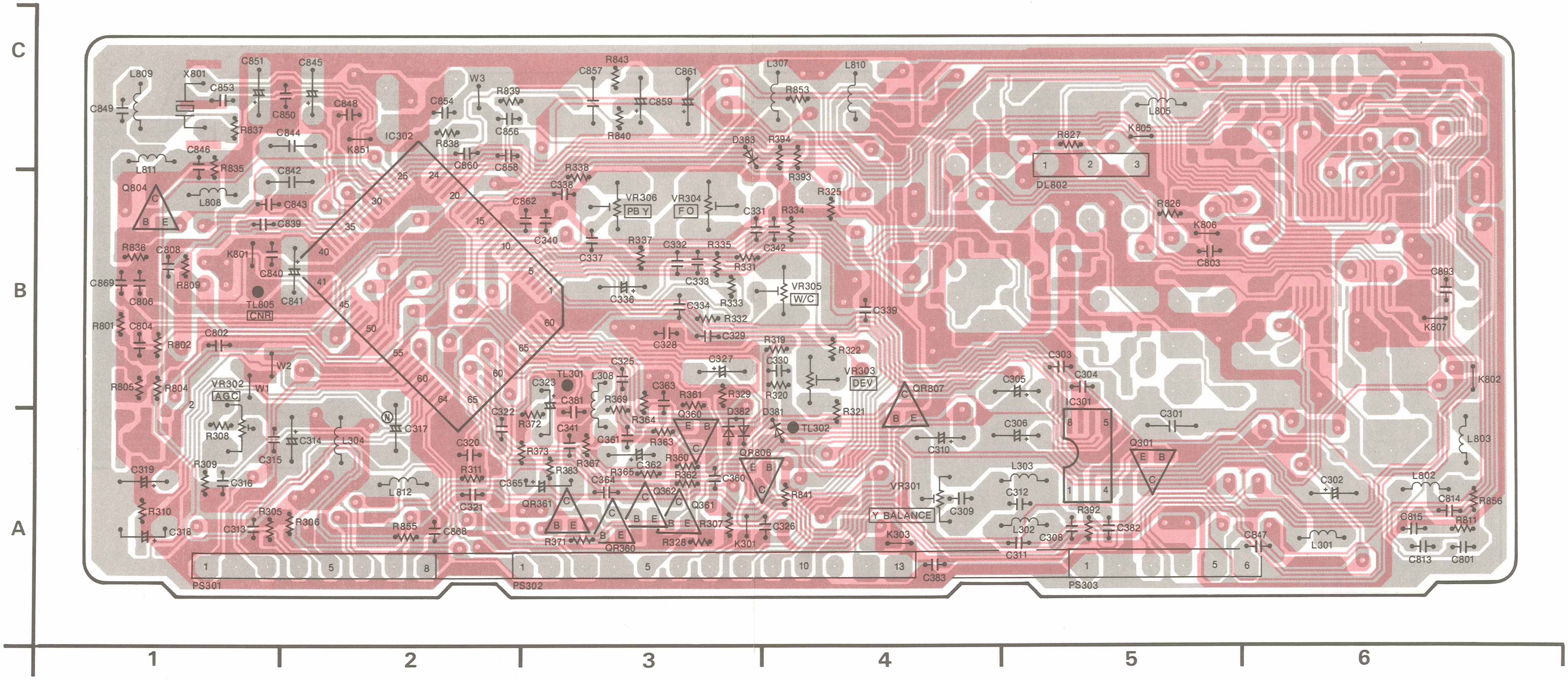

BIAS CURR.
TP4002
TP4003
VR4001
BIAS
P4002
P2501
SLOW TRACK SP
SLOW TRACK LP
TP2051
S-TR LP
VR2011
VR2006
TP2050
S-TR SP
TP SERV
TP TEST
SERVICE MODE
K2501
P2004
P4003
P2003
TP2026
CAP R/S/F
IC2501
IC2502
T4701
Q4701
QR4703
Q4703
PS4701
PS2501
C
B
A
1
2
3
4
5
6
7
8

4-10. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03B46A)

LUMINANCE & CHROMINANCE PACK C.B.A.

Transistor		Test Point	
Q301	A-5	TL301	B-3
Q360	A-3	TL302	A-4
Q361	A-3	TL801	B-6
Q362	A-3	TL805	B-1
Q804	B-1	TL807	C-6
Transistor & Resistor		**Adjustment**	
QR360	A-3	VR301	A-4
QR361	A-3	VR302	A-1
QR806	A-3	VR303	B-4
QR807	B-4	VR304	B-3
Integrated Circuit		VR305	B-4
		VR306	B-3
IC301	A-5	**Connector**	
IC302	C-2	PS301	A-1
		PS302	A-3
		PS303	A-5

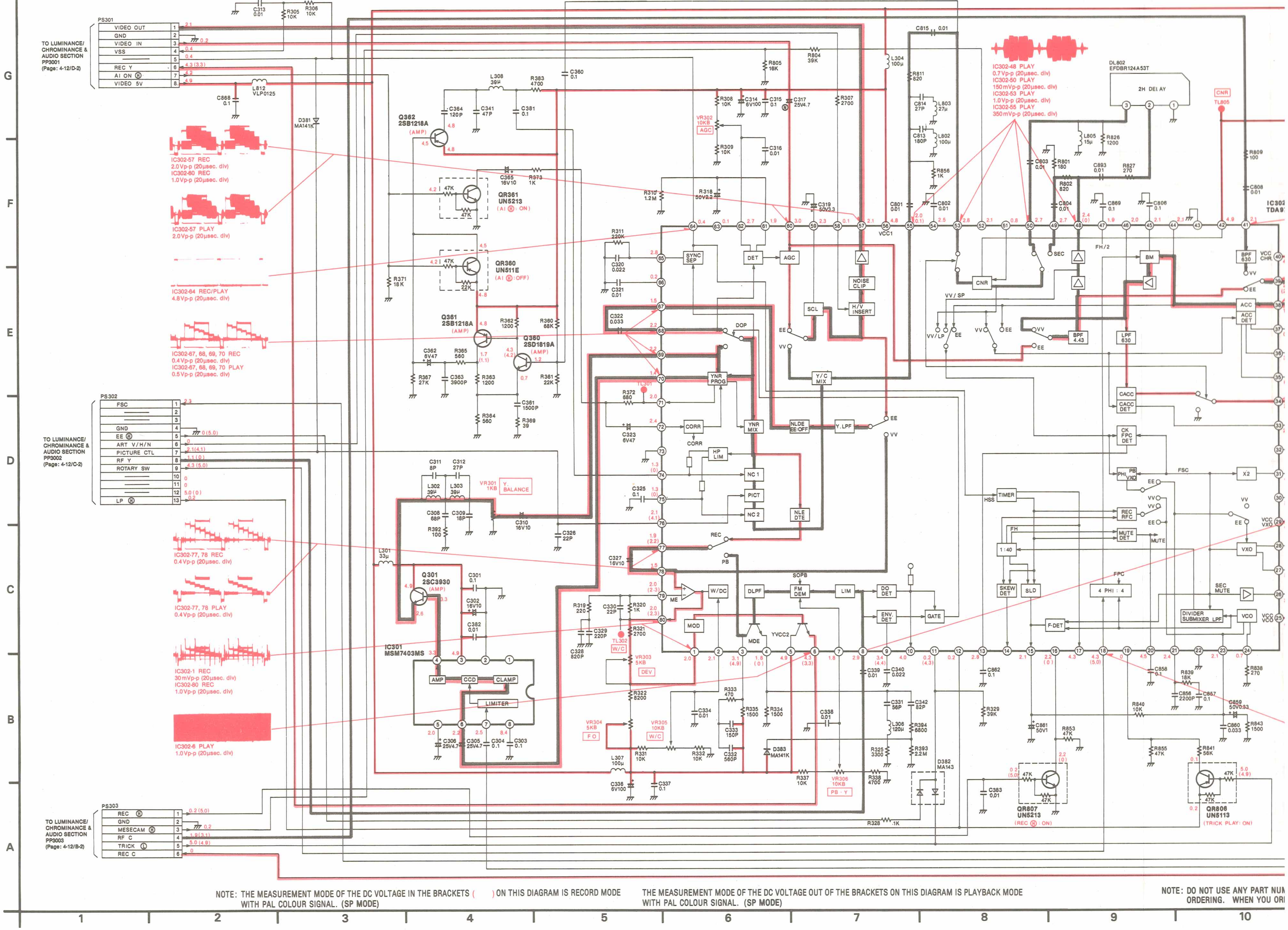
ADDRESS INFORMATION


C
B
A
1
2
3
4
5
6
L809
X801
C851
C845
C853
C849
C850
R837
C848
C844
C846
L811
R835
C842
Q804
L808
C843
C839
R836
C808
K801
C840
C869
C806
R809
TL805
CNR
C841
R801
C804
R802
C802
R805
R804
VR302
AGC
W1
W2
R308
C314
C315
L304
C317
C319
R309
C316
R310
C318
C313
R305
R306
L812
R855
C868
PS301
IC302
K851
W3
C854
R839
R838
C856
C860
C858
C857
R843
C861
C859
R840
L307
R853
L810
D383
R394
R393
R338
C338
C862
C340
VR306
PB Y
VR304
F O
C331
R334
R325
C337
R337
C332
R335
C342
R331
C333
VR305
W/C
C336
C334
R333
R332
C339
C328
C329
R319
R322
C330
C327
VR303
DEV
R320
C325
L308
TL301
C323
C381
R369
C363
R361
R329
Q360
C322
R372
C341
R364
D382
D381
TL302
R321
C320
R373
C361
R363
QR806
R311
R367
R383
C362
R360
C365
C364
R365
R362
C360
R841
C321
QR361
Q362
Q361
R371
QR360
R328
R307
K301
C326
PS302
C383
QR807
C303
C304
C305
IC301
C306
C310
L303
VR301
C312
C309
Y BALANCE
K303
L302
C308
C311
R392
C382
Q301
C301
C302
L802
C814
R856
C815
R811
C847
L301
C813
C801
PS303
L805
R827
K805
DL802
R826
K806
C803
C893
K807
K802
L803
E
B
C
1
2
3
5
6
8
10
13
15
20
24
25
30
35
40
41
45
50
55
60
64
65

4-11. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH


PS301
VIDEO OUT
GND
VIDEO IN
VSS
REC Y
AI ON Ⓗ
VIDEO 5V
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP3001 (Page: 4-12/D-2)
PS302
FSC
GND
EE Ⓗ
ART V/H/N
PICTURE CTL
RF Y
ROTARY SW
LP Ⓗ
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP3002 (Page: 4-12/C-2)
PS303
REC Ⓗ
GND
MESECAM Ⓗ
RF C
TRICK Ⓛ
REC C
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP3003 (Page: 4-12/B-2)
IC302-57 REC 2.0Vp-p (20μsec. div)
IC302-60 REC 1.0Vp-p (20μsec. div)
IC302-57 PLAY 2.0Vp-p (20μsec. div)
IC302-64 REC/PLAY 4.8Vp-p (20μsec. div)
IC302-67, 68, 69, 70 REC 0.4Vp-p (20μsec. div)
IC302-67, 68, 69, 70 PLAY 0.5Vp-p (20μsec. div)
IC302-77, 78 REC 0.4Vp-p (20μsec. div)
IC302-77, 78 PLAY 0.4Vp-p (20μsec. div)
IC302-1 REC 30mVp-p (20μsec. div)
IC302-80 REC 1.0Vp-p (20μsec. div)
IC302-6 PLAY 1.0Vp-p (20μsec. div)
IC302-48 PLAY 0.7Vp-p (20μsec. div)
IC302-50 PLAY 150mVp-p (20μsec. div)
IC302-53 PLAY 1.0Vp-p (20μsec. div)
IC302-55 PLAY 350mVp-p (20μsec. div)
Q362 2SB1218A (AMP)
QR361 UN5213 (AI Ⓗ: ON)
QR360 UN511E (AI Ⓗ: OFF)
Q361 2SB1218A (AMP)
Q360 2SD1819A (AMP)
Q301 2SC3930 (AMP)
IC301 MSM7403MS
AMP
CCD
CLAMP
LIMITER
VR301 1KB Y BALANCE
VR302 10KB AGC
VR303 5KB DEV
VR304 5KB FO
VR305 10KB W/C
VR306 10KB PB·Y
TL301
TL302 W/C
SYNC SEP
DET
AGC
SCL
NOISE CLIP
H/V INSERT
DOP
YNR PROG
Y/C MIX
YNR MIX
NLDE EE:OFF
Y.LPF
CORR
HP LIM
NC 1
PICT
NC 2
NLE DTE
W/DC
DLPF
FM DEM
LIM
DO DET
ENV. DET
GATE
MOD
MDE
ME
SOPB
YVCC2
VCC1
CNR
BM
BPF 4.43
LPF 630
BPF 630
ACC
ACC DET
CACC
CACC DET
CK FPC DET
PHI
REC RFC
MUTE DET
TIMER
HSS
1:40
SKEW DET
SLD
F-DET
4 PHI:4
FPC
DIVIDER SUBMIXER LPF
VCO
VXO
X2
FSC
SEC MUTE
DL802 EFDBR124A53T
2H DELAY
CNR TL805
IC302 TDA
QR807 UN5213 (REC Ⓗ: ON)
QR806 UN5113 (TRICK PLAY: ON)
D381 MA141K
D383 MA141K
D382 MA143
FH/2
SEC
EE
VV
VV/SP
VV/LP
REC
PB
MUTE
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G

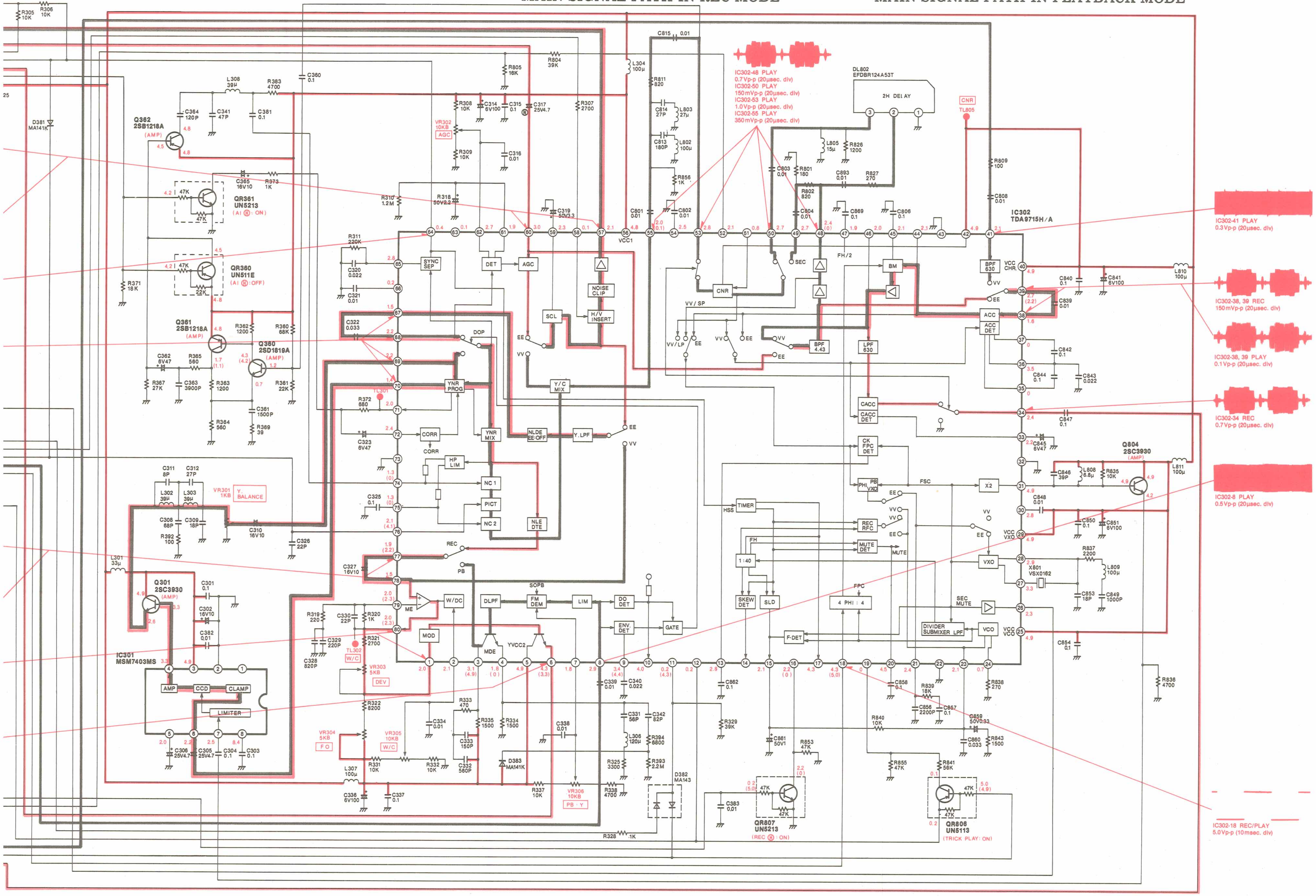
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUM
ORDERING. WHEN YOU OR

INANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE


IC302 TDA9715H/A
IC301 MSM7403MS
Q362 2SB1218A (AMP)
QR361 UN5213 (AI Ⓡ: ON)
QR360 UN511E (AI Ⓡ: OFF)
Q361 2SB1218A (AMP)
Q360 2SD1819A (AMP)
Q301 2SC3930 (AMP)
Q804 2SC3930 (AMP)
QR807 UN5213 (REC Ⓡ: ON)
QR806 UN5113 (TRICK PLAY: ON)
DL802 EFDBR124A53T
2H DELAY
D381 MA141K
D383 MA141K
D382 MA143
X801 VSX0162
VR302 10KB AGC
VR301 1KB Y BALANCE
VR303 5KB DEV
VR304 5KB FO
VR305 10KB W/C
VR306 10KB PB · Y
TL301
TL302 W/C
CNR TL805
SYNC SEP
DET
AGC
NOISE CLIP
H/V INSERT
SCL
DOP
YNR PROG
Y/C MIX
CORR
HP LIM
YNR MIX
NLDE EE·OFF
Y.LPF
NC 1
PICT
NC 2
NLE DTE
W/DC
DLPF
FM DEM
SOPB
LIM
DO DET
ENV. DET
GATE
MOD
MDE
YVCC2
AMP
CCD
CLAMP
LIMITER
CNR
SEC
FH/2
BM
BPF 4.43
LPF 630
BPF 630
ACC
ACC DET
CACC
CACC DET
CK FPC DET
PB PHI VXO
TIMER
HSS
REC RFC
MUTE DET
1:40
SKEW DET
SLD
FPC
4 PHI : 4
F-DET
SEC MUTE
DIVIDER SUBMIXER LPF
VCO
VXO
X2
FSC
VCC CHR
VCC VXO
VCC VCO
VV/SP
VV/LP
EE
VV
REC
PB
IC302-48 PLAY 0.7Vp-p (20μsec. div)
IC302-50 PLAY 150mVp-p (20μsec. div)
IC302-53 PLAY 1.0Vp-p (20μsec. div)
IC302-55 PLAY 350mVp-p (20μsec. div)
IC302-41 PLAY 0.3Vp-p (20μsec. div)
IC302-38, 39 REC 150mVp-p (20μsec. div)
IC302-38, 39 PLAY 0.1Vp-p (20μsec. div)
IC302-34 REC 0.7Vp-p (20μsec. div)
IC302-8 PLAY 0.5Vp-p (20μsec. div)
IC302-18 REC/PLAY 5.0Vp-p (10msec. div)
3
4
5
6
7
8
9
10
11
12

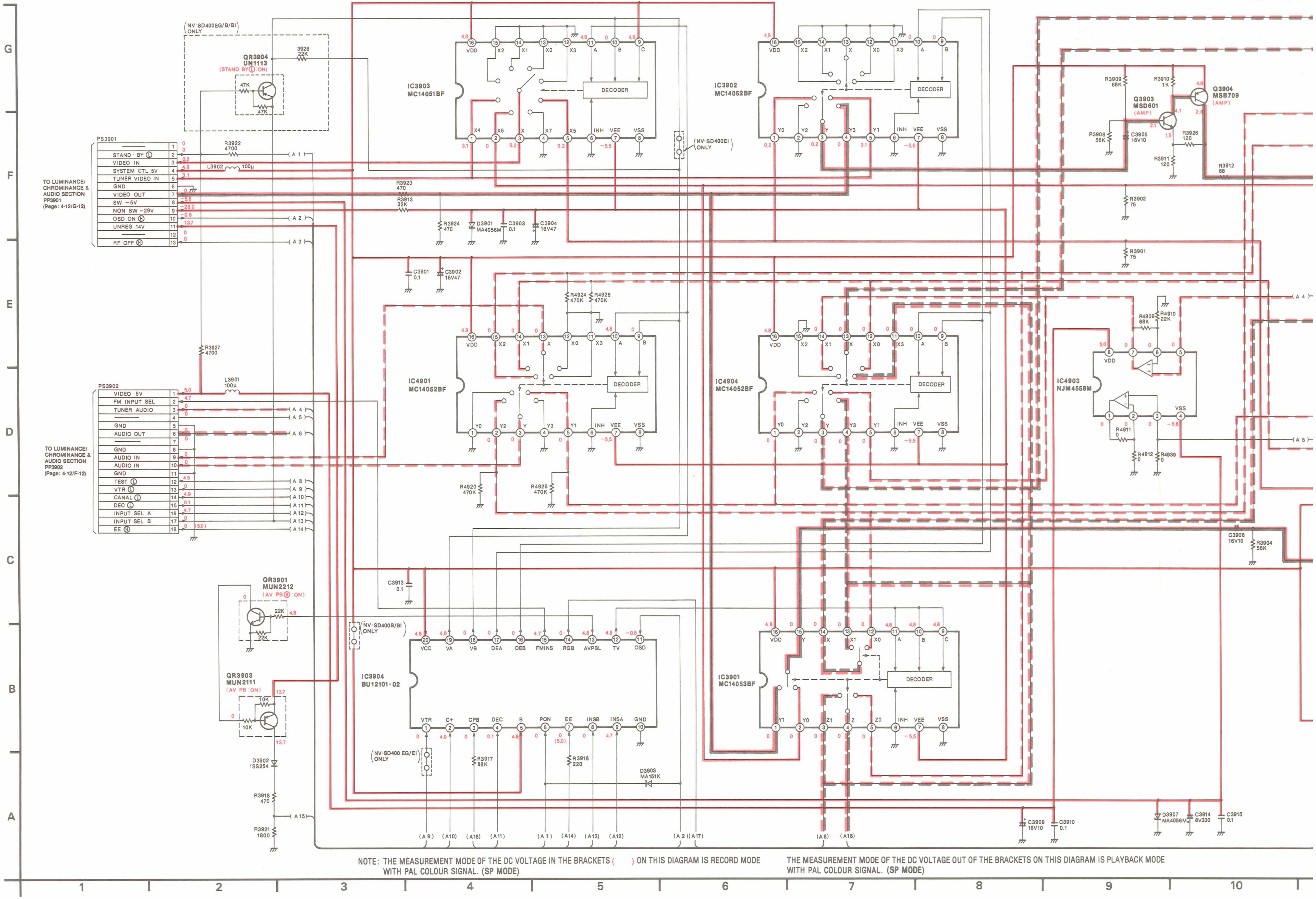
SUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE
COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-12. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

🟥 VIDEO MAIN SIGNAL PATH IN REC MODE
▬ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
- - AUDIO M.
- - AUDIO M.

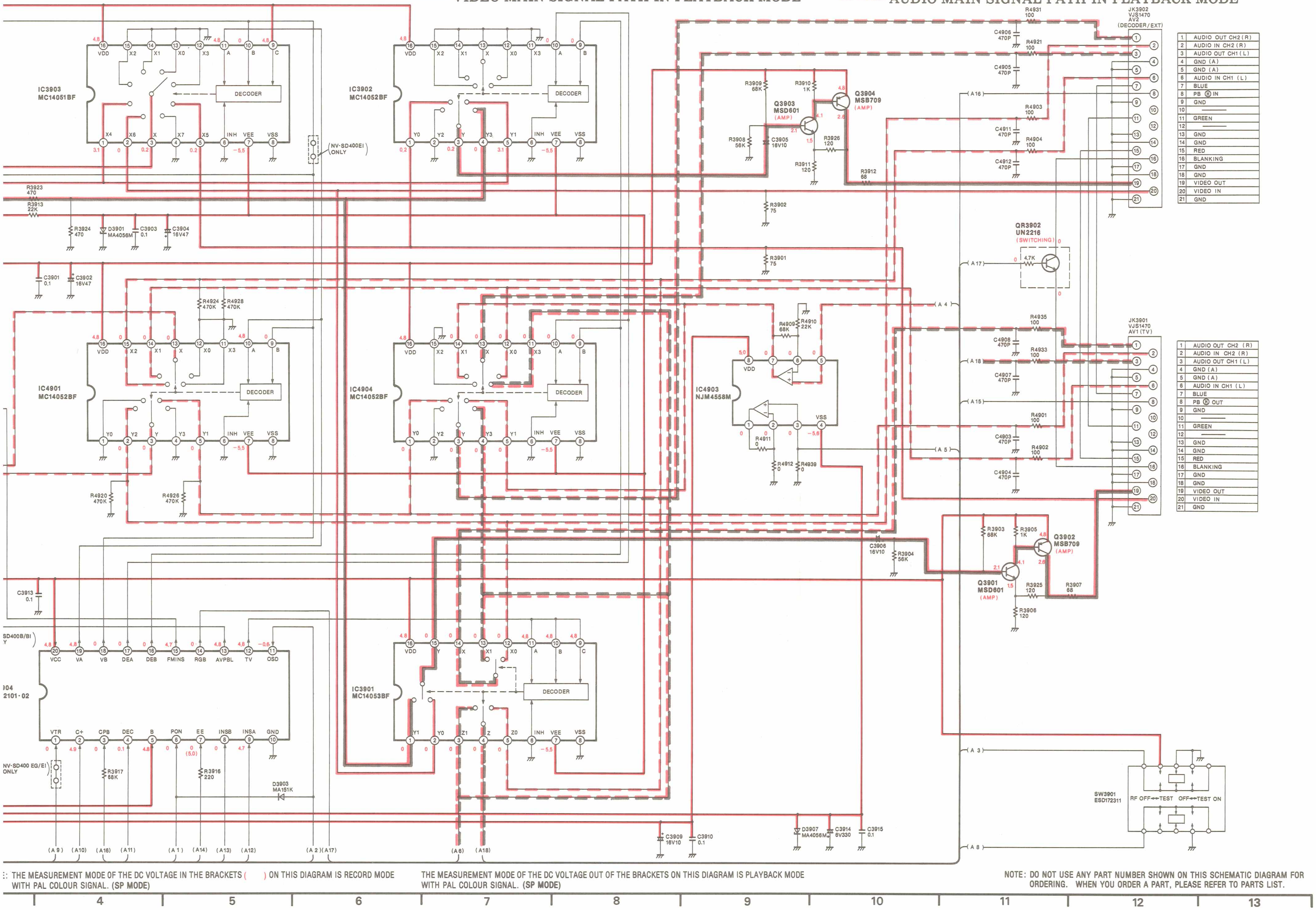

G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
(NV-SD400EG/B/BI) ONLY
QR3904 UN1113
(STAND BY Ⓛ:ON)
3928 22K
47K
47K
PS3901
STAND · BY Ⓛ
VIDEO IN
SYSTEM CTL 5V
TUNER VIDEO IN
GND
VIDEO OUT
SW −5V
NON SW −29V
OSD ON Ⓗ
UNREG 14V
RF OFF Ⓗ
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP3901 (Page: 4-12/G-12)
R3922 4700
L3902 100μ
R3923 470
R3913 22K
R3924 470
D3901 MA4056M
C3903 0.1
C3904 16V47
C3901 0.1
C3902 16V47
IC3903 MC14051BF
DECODER
(NV-SD400EI) ONLY
IC3902 MC14052BF
R3909 68K
R3910 1K
Q3904 MSB709 (AMP)
Q3903 MSD601 (AMP)
R3908 56K
C3905 16V10
R3926 120
R3911 120
R3912 68
R3902 75
R3901 75
R4924 470K
R4928 470K
IC4901 MC14052BF
IC4904 MC14052BF
IC4903 NJM4558M
R4909 68K
R4910 22K
R4911 0
R4912 0
R4939 0
R3927 4700
L3901 100μ
PS3902
VIDEO 5V
FM INPUT SEL
TUNER AUDIO
GND
AUDIO OUT
GND
AUDIO IN
AUDIO IN
GND
TEST Ⓛ
VTR Ⓛ
CANAL Ⓛ
DEC Ⓛ
INPUT SEL A
INPUT SEL B
EE Ⓗ
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP3902 (Page: 4-12/F-12)
R4920 470K
R4926 470K
C3906 16V10
R3904 56K
C3913 0.1
QR3901 MUN2212 (AV PB Ⓗ:ON)
22K
22K
(NV-SD400B/BI) ONLY
IC3904 BU12101·02
VCC VA VB DEA DEB FMINS RGB AVPBL TV OSD
VTR C+ CPB DEC B PON EE INSB INSA GND
IC3901 MC14053BF
QR3903 MUN2111 (AV PB:ON)
10K
10K
(NV-SD400 EG/EI) ONLY
R3917 68K
R3916 220
D3903 MA151K
D3902 1SS254
R3918 470
R3921 1800
C3909 16V10
C3910 0.1
D3907 MA4056M
C3914 6V330
C3915 0.1

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (   ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

C DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE


IC3903
MC14051BF
IC3902
MC14052BF
IC4901
MC14052BF
IC4904
MC14052BF
IC4903
NJM4558M
IC3901
MC14053BF
DECODER
VDD
VSS
VEE
INH
Q3903
MSD601
(AMP)
Q3904
MSB709
(AMP)
Q3901
MSD601
(AMP)
Q3902
MSB709
(AMP)
QR3902
UN2216
(SWITCHING)
SW3901
ESD172311
RF OFF↔TEST OFF↔TEST ON
NV-SD400EI
ONLY
NV-SD400 EG/EI
ONLY
SD400B/BI
VCC
VA
VB
DEA
DEB
FMINS
RGB
AVPBL
TV
OSD
VTR
C+
CPB
DEC
B
PON
EE
INSB
INSA
GND
D3901
MA4056M
D3903
MA151K
D3907
MA4056M
R3923
470
R3913
22K
R3924
470
C3903
0.1
C3904
16V47
C3901
0.1
C3902
16V47
C3913
0.1
R4924
470K
R4928
470K
R4920
470K
R4926
470K
R3917
68K
R3916
220
R3909
68K
R3910
1K
R3908
56K
C3905
16V10
R3926
120
R3911
120
R3912
68
R3902
75
R3901
75
R4909
68K
R4910
22K
R4911
0
R4912
0
R4939
0
C3909
16V10
C3910
0.1
C3914
6V330
C3915
0.1
C3906
16V10
R3904
56K
R3903
68K
R3905
1K
R3925
120
R3907
68
R3906
120
R4931
100
R4921
100
C4906
470P
C4905
470P
R4903
100
C4911
470P
R4904
100
C4912
470P
R4935
100
C4908
470P
R4933
100
C4907
470P
R4901
100
C4903
470P
R4902
100
C4904
470P
4.7K
JK3902
VJS1470
AV2
(DECODER/EXT)
JK3901
VJS1470
AV1 (TV)
(A 1)
(A 2)
(A 3)
(A 4)
(A 5)
(A 6)
(A 8)
(A 9)
(A10)
(A11)
(A12)
(A13)
(A14)
(A15)
(A16)
(A17)
(A18)
4
5
6
7
8
9
10
11
12
13

1	AUDIO OUT CH2 (R)
2	AUDIO IN CH2 (R)
3	AUDIO OUT CH1 (L)
4	GND (A)
5	GND (A)
6	AUDIO IN CH1 (L)
7	BLUE
8	PB Ⓗ IN
9	GND
10	———
11	GREEN
12	———
13	GND
14	GND
15	RED
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN
21	GND

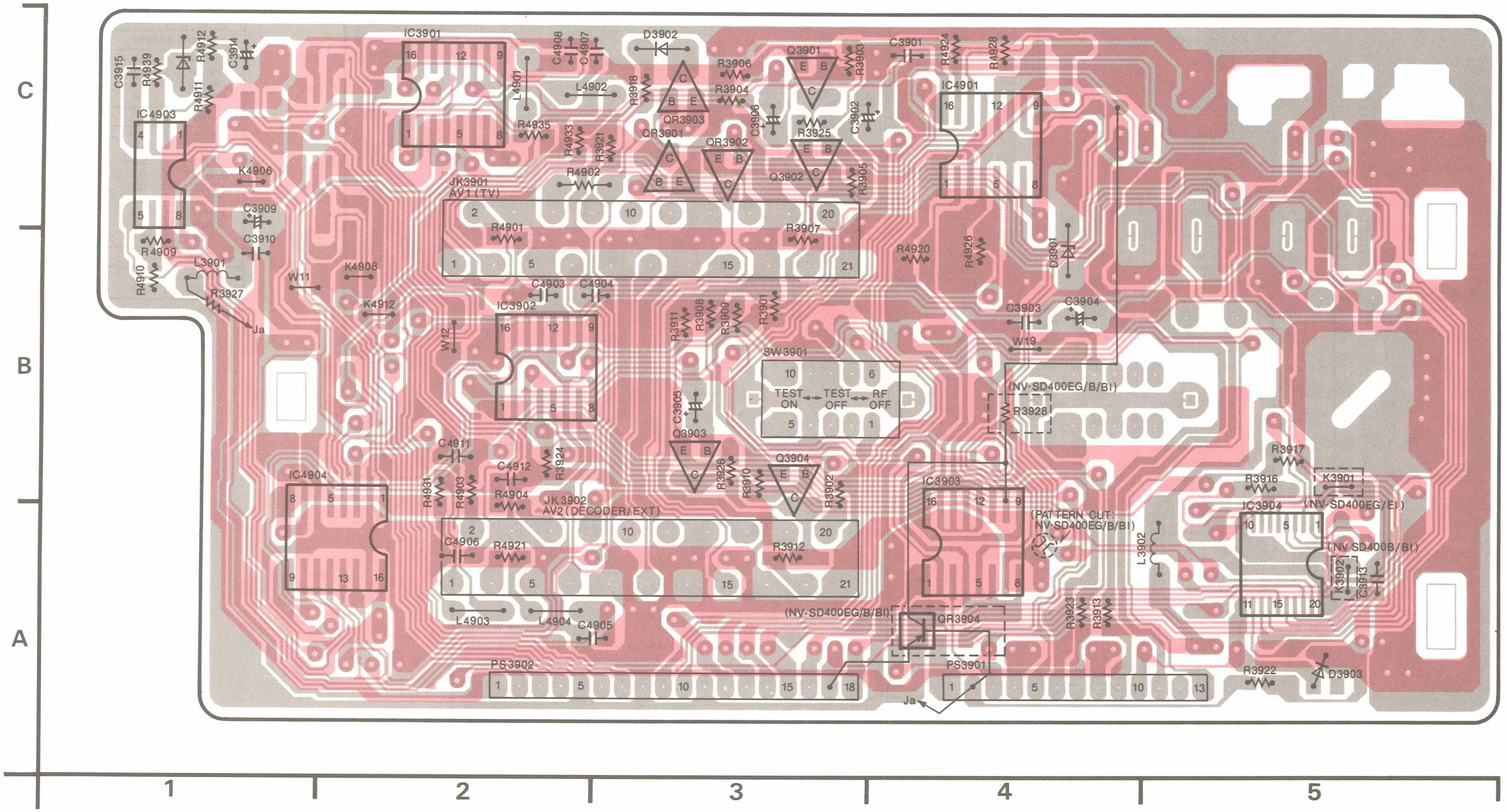
1	AUDIO OUT CH2 (R)
2	AUDIO IN CH2 (R)
3	AUDIO OUT CH1 (L)
4	GND (A)
5	GND (A)
6	AUDIO IN CH1 (L)
7	BLUE
8	PB Ⓗ OUT
9	GND
10	———
11	GREEN
12	———
13	GND
14	GND
15	RED
16	BLANKING
17	GND
18	GND
19	VIDEO OUT
20	VIDEO IN
21	GND

: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

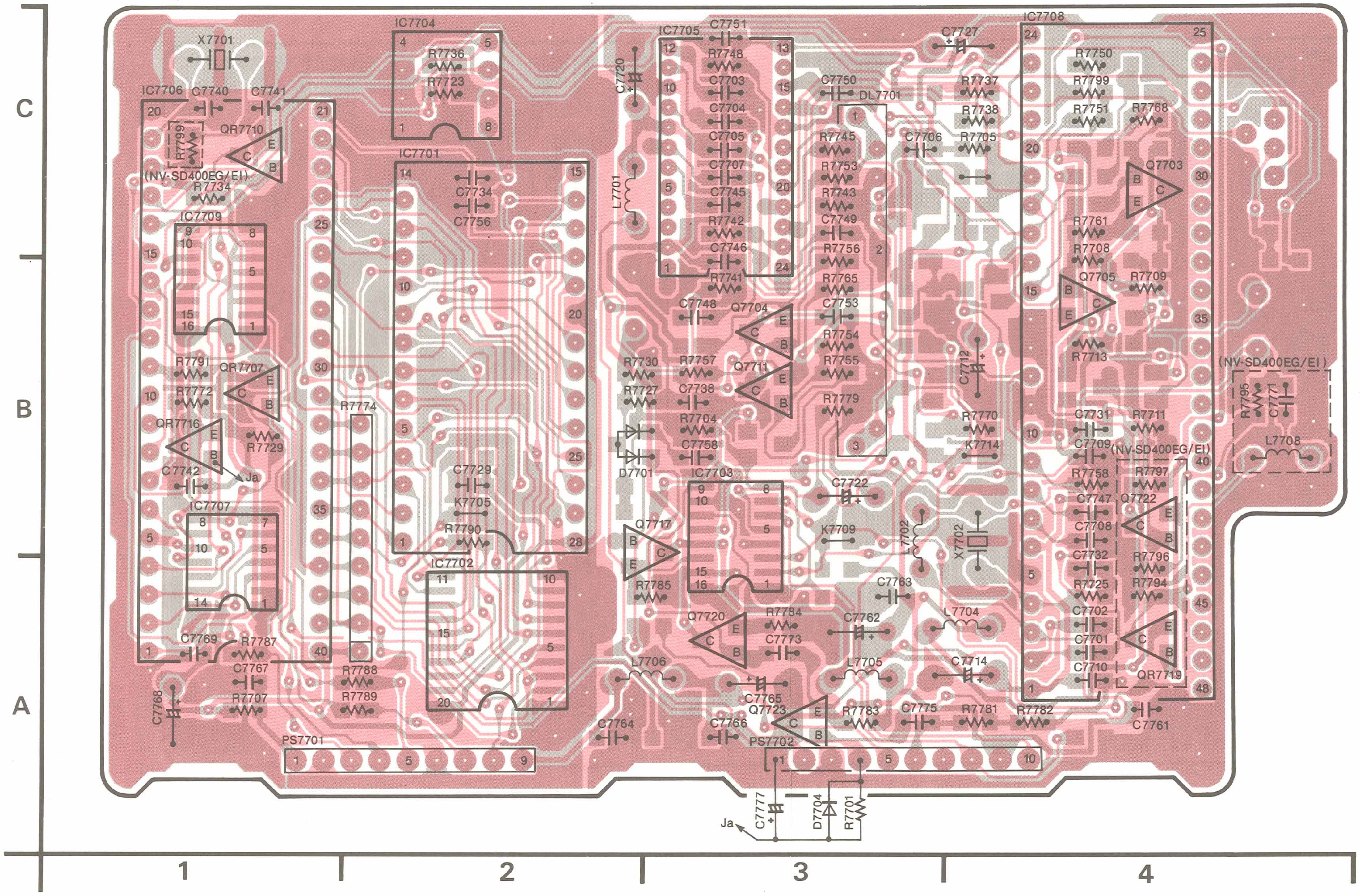
4-13. INPUT/OUTPUT PACK C.B.A. (VEP03B23A: NV-SD400EG) (VEP03B23L: NV-SD400EI) (VEP03B23C: NV-SD400B/BI)


C
B
A
1
2
3
4
5
C3915
R4939
R4912
C3914
R4911
IC4903
K4906
C3909
C3910
R4909
R4910
L3901
R3927
Ja
W11
K4908
K4912
IC3901
16
12
9
1
5
8
L4901
C4908
C4907
L4902
R4935
R4933
R3921
R4902
JK3901
AV1 (TV)
2
10
20
R4901
1
5
15
21
D3902
R3906
R3904
R3918
QR3903
QR3901
QR3902
R3906
C3906
Q3901
R3903
R3925
C3902
Q3902
R3905
R3907
C3901
R4924
R4928
IC4901
R4920
R4926
D3901
C3903
C3904
W19
C4903
C4904
IC3902
W12
R3911
R3908
R3909
R3901
SW3901
TEST ON
TEST OFF
RF OFF
C3905
Q3903
Q3904
(NV-SD400EG/B/BI)
R3928
R3917
R3916
K3901
(NV-SD400EG/EI)
IC3904
(NV SD400B/BI)
K3902
C3913
C4911
C4912
R3924
R4904
R4931
R4903
IC4904
JK3902
AV2 (DECODER/EXT)
C4906
R4921
R3926
R3910
R3902
R3912
IC3903
(PATTERN CUT:
NV-SD400EG/B/BI)
L3902
R3923
R3913
L4903
L4904
C4905
(NV-SD400EG/B/BI)
QR3904
PS3902
PS3901
18
13
Ja
R3922
D3903

INPUT/OUTPUT PACK C.B.A.	
Transistor	
Q3901	C-3
Q3902	C-3
Q3903	B-3
Q3904	B-3
Transistor & Resistor	
QR3901	C-3
QR3902	C-3
QR3903	C-3
Integrated Circuit	
IC3901	C-2
IC3902	B-2
IC3903	A-4
IC3904	A-5
IC4901	C-4
IC4903	C-1
IC4904	B-1
Connector	
PS3901	A-2
PS3902	A-4

ADDRESS INFORMATION

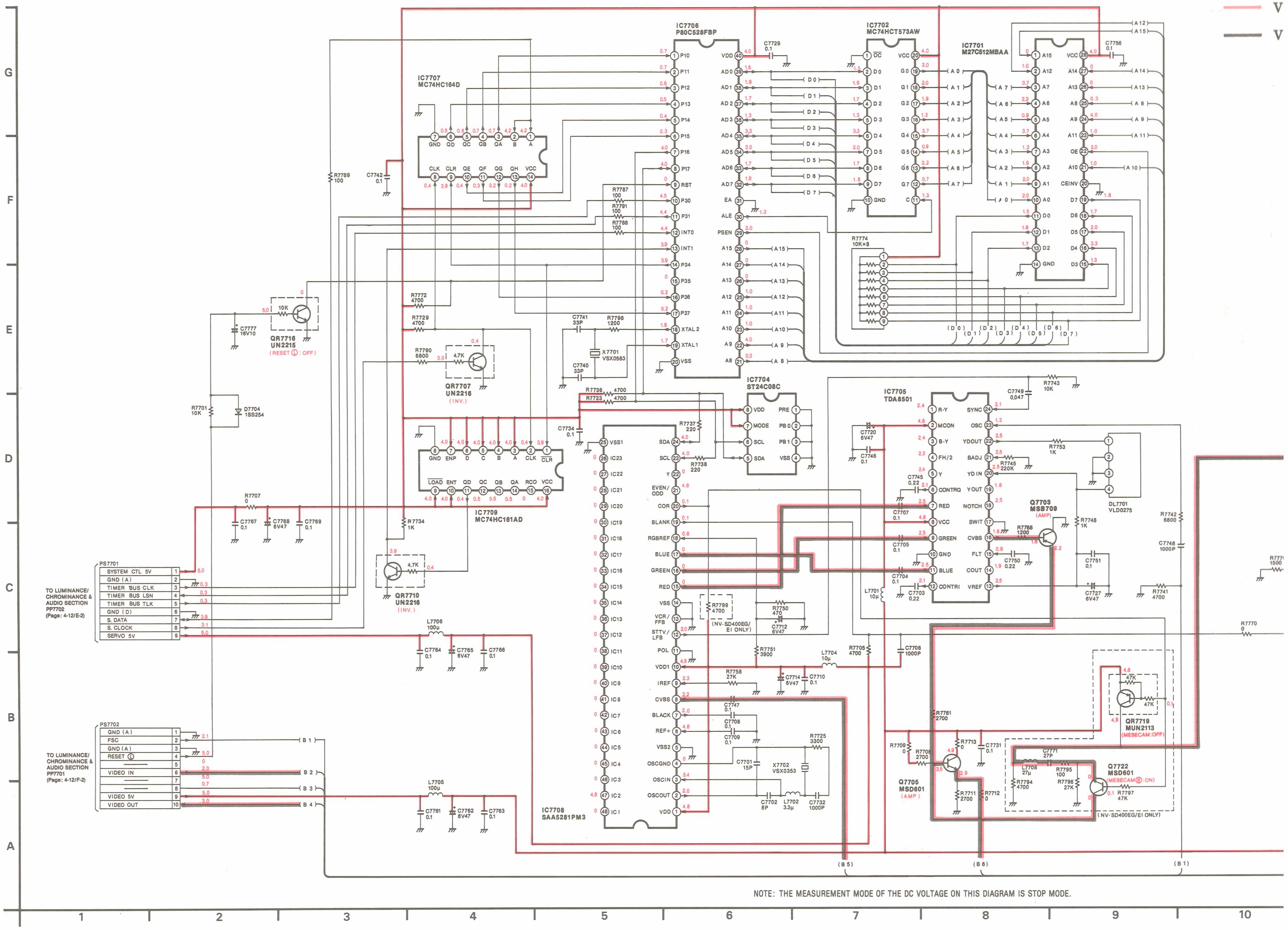
4-14. OSD PACK C.B.A. (VEP06993A: NV-SD400EG/EI) (VEP06993C: NV-SD400B/BI)


C
B
A
1
2
3
4
X7701
IC7704
IC7705
C7751
C7727
IC7708
IC7706
C7740
C7741
R7736
R7723
R7748
C7703
C7720
C7750
DL7701
R7737
R7750
R7799
R7738
R7751
R7768
QR7710
R7799
C7704
C7705
C7707
C7745
C7706
R7745
R7753
R7743
C7749
R7705
(NV-SD400EG/EI)
R7734
IC7701
C7734
C7756
L7701
Q7703
IC7709
R7742
C7746
R7741
R7756
R7765
C7753
R7761
R7708
Q7705
R7709
C7748
Q7704
R7754
R7755
R7713
C7712
R7791
QR7707
R7772
R7730
R7757
R7727
C7738
Q7711
R7779
(NV-SD400EG/EI)
R7795
C7771
QR7716
R7729
R7774
R7704
C7758
D7701
R7770
K7714
C7731
R7711
C7709
(NV-SD400EG/EI)
L7708
C7742
Ja
C7729
K7705
IC7703
C7722
R7758
R7797
C7747
Q7722
IC7707
R7790
Q7717
K7709
L7702
X7702
C7708
C7732
R7796
R7725
R7794
IC7702
R7785
C7763
C7702
Q7720
R7784
C7762
L7704
C7773
C7701
C7769
R7787
L7706
L7705
C7714
C7710
QR7719
C7767
R7788
C7768
R7707
R7789
C7765
Q7723
R7783
C7775
R7781
R7782
C7761
C7764
C7766
PS7701
PS7702
C7777
D7704
R7701
Ja

OSD PACK C.B.A.	
Transistor	
Q7703	C-4
Q7704	B-3
Q7705	B-4
Q7711	B-3
Q7717	B-3
Q7720	A-3
Q7722	B-4
Q7723	A-3
Transistor & Resistor	
QR7707	B-1
QR7710	C-1
QR7716	B-1
QR7719	A-4
Integrated Circuit	
IC7701	C-2
IC7702	A-2
IC7703	B-3
IC7704	C-2
IC7705	C-3
IC7706	C-1
IC7707	B-1
IC7708	C-4
IC7709	C-1
Connector	
PS7701	A-1
PS7702	A-3

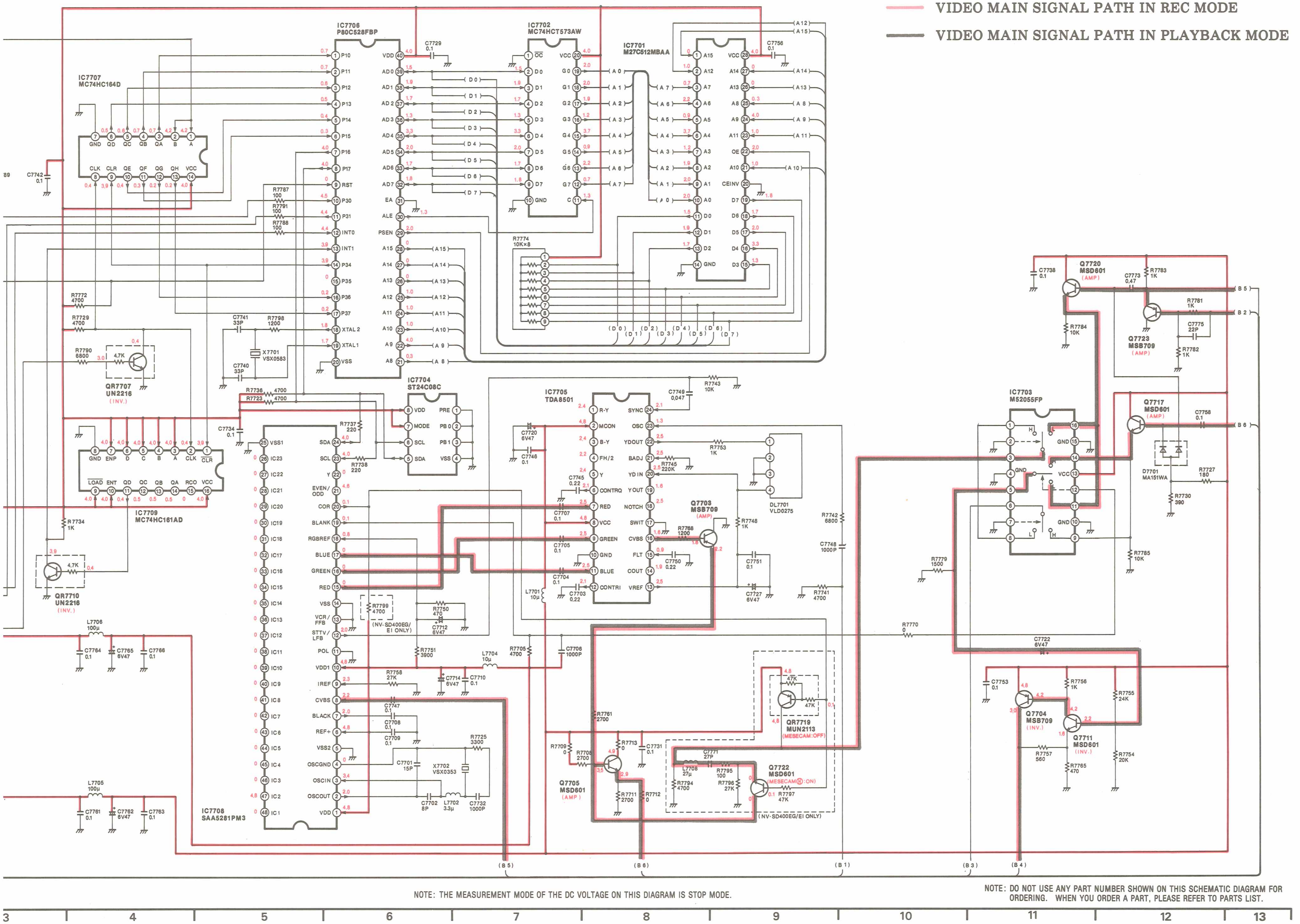
ADDRESS INFORMATION

4-15. OSD PACK SCHEMATIC DIAGRAM


IC7706 P80C528FBP
IC7707 MC74HC164D
IC7702 MC74HCT573AW
IC7701 M27C512MBAA
IC7704 ST24C08C
IC7705 TDA8501
IC7708 SAA5281PM3
IC7709 MC74HC161AD
QR7716 UN2215 (RESET ①: OFF)
QR7707 UN2216 (INV.)
QR7710 UN2216 (INV.)
Q7703 MSB709 (AMP)
Q7705 MSD601 (AMP)
QR7719 MUN2113 (MESECAM:OFF)
Q7722 MSD601 (MESECAM①:ON)
DL7701 VLD0275
D7704 1SS254
X7701 VSX0583
X7702 VSX0353
R7774 10K×8
(NV-SD400EG/EI ONLY)
PS7701
SYSTEM CTL 5V
GND (A)
TIMER BUS CLK
TIMER BUS LSN
TIMER BUS TLK
GND (D)
S. DATA
S. CLOCK
SERVO 5V
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP7702 (Page: 4-12/E-2)
PS7702
GND (A)
FSC
GND (A)
RESET ①
VIDEO IN
VIDEO 5V
VIDEO OUT
TO LUMINANCE/ CHROMINANCE & AUDIO SECTION PP7701 (Page: 4-12/F-2)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

RAM


IC7706
P80C528FBP
IC7702
MC74HCT573AW
IC7701
M27C512MBAA
IC7707
MC74HC164D
IC7709
MC74HC161AD
IC7704
ST24C08C
IC7705
TDA8501
IC7708
SAA5281PM3
IC7703
M52055FP
QR7707
UN2216
(INV.)
QR7710
UN2216
(INV.)
Q7720
MSD601
(AMP)
Q7723
MSB709
(AMP)
Q7717
MSD601
(AMP)
Q7703
MSB709
(AMP)
Q7705
MSD601
(AMP)
QR7719
MUN2113
(MESECAM:OFF)
Q7722
MSD601
(MESECAM:ON)
Q7704
MSB709
(INV.)
Q7711
MSD601
(INV.)
DL7701
VLD0275
D7701
MA151WA
X7701
VSX0583
X7702
VSX0353
(NV-SD400EG/EI ONLY)
(B 5)
(B 6)
(B 1)
(B 3)
(B 4)
(B 2)
3
4
5
6
7
8
9
10
11
12
13

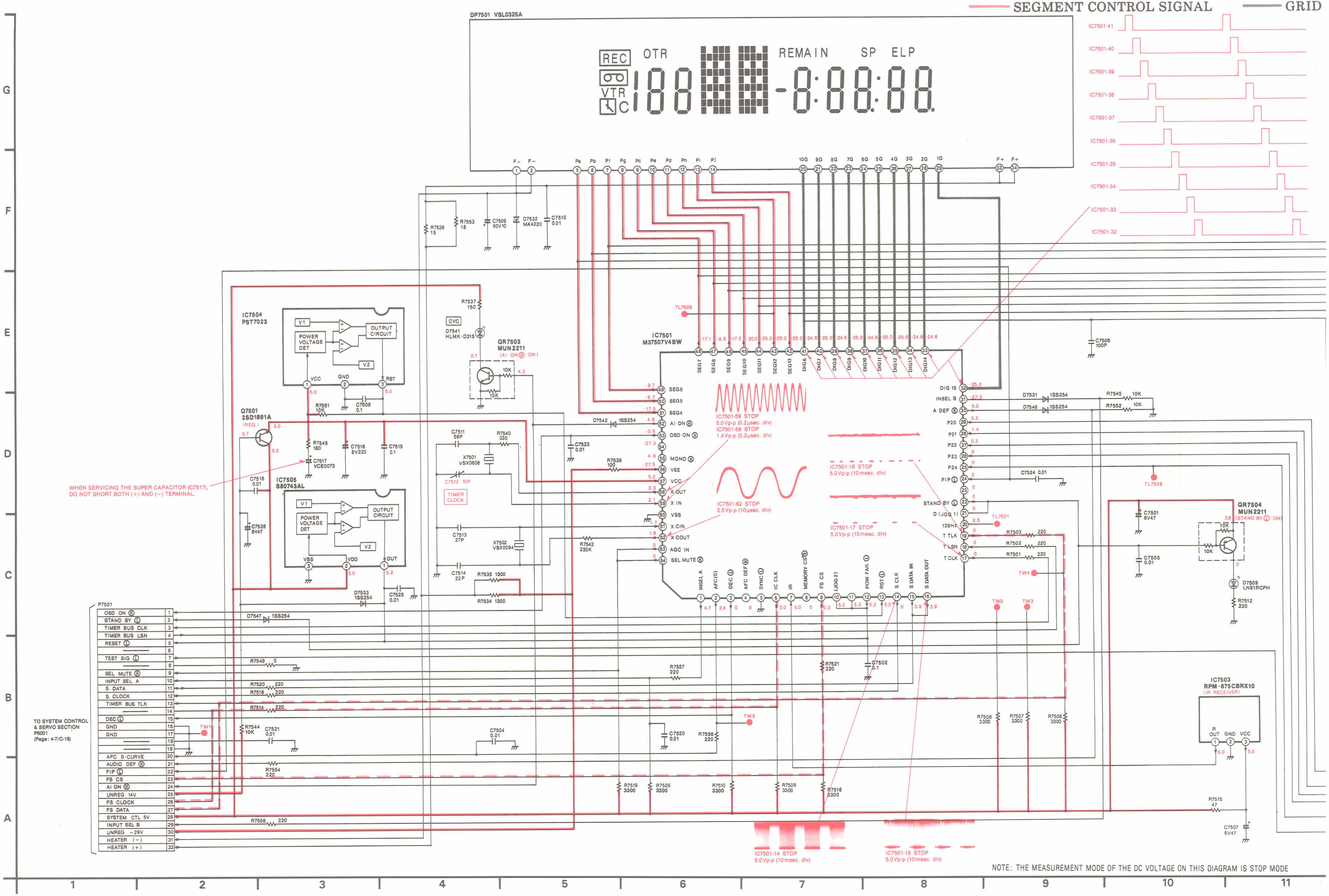
🟥 VIDEO MAIN SIGNAL PATH IN REC MODE

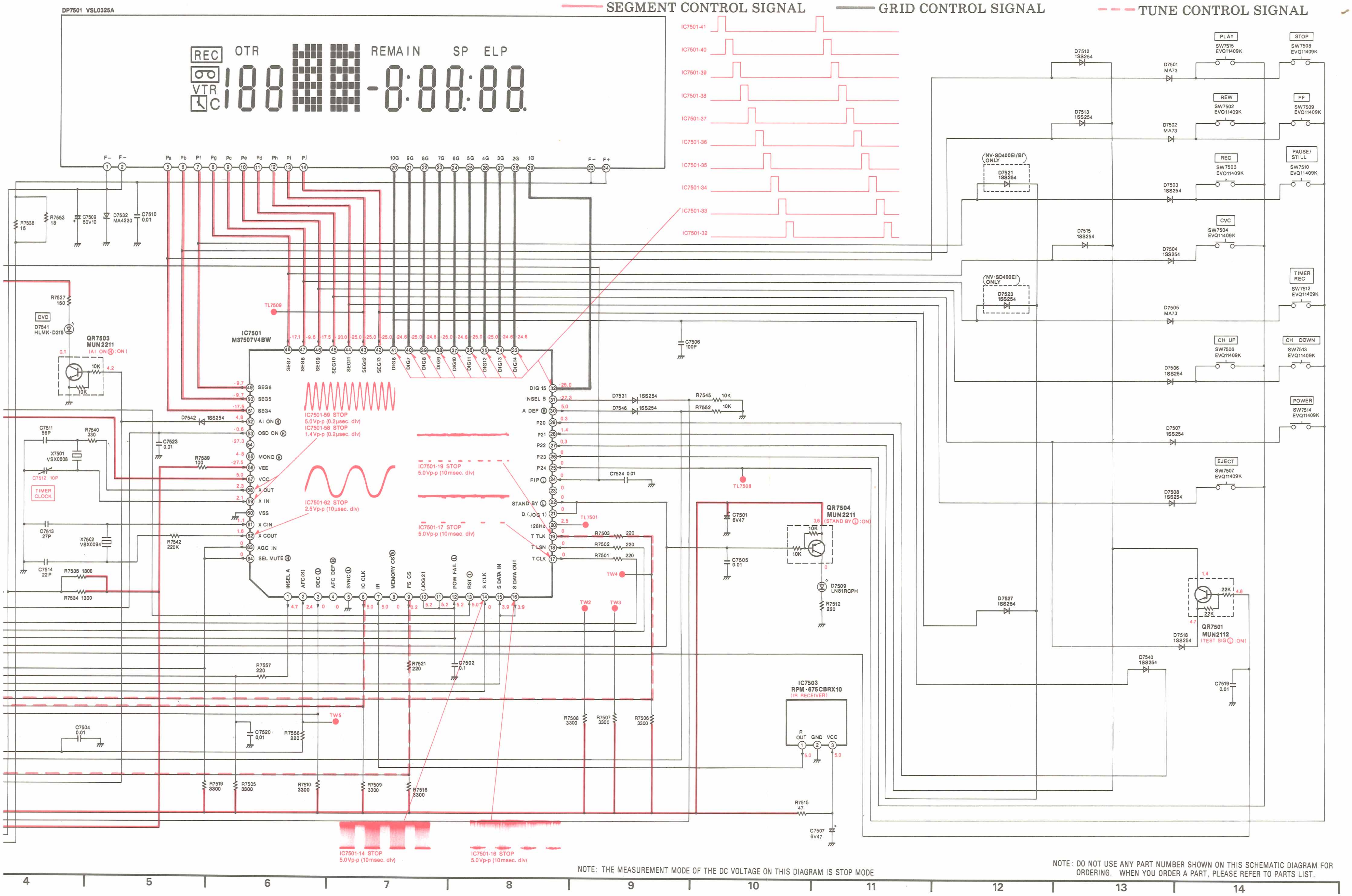
⬛ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-16. TIMER SCHEMATIC DIAGRAM

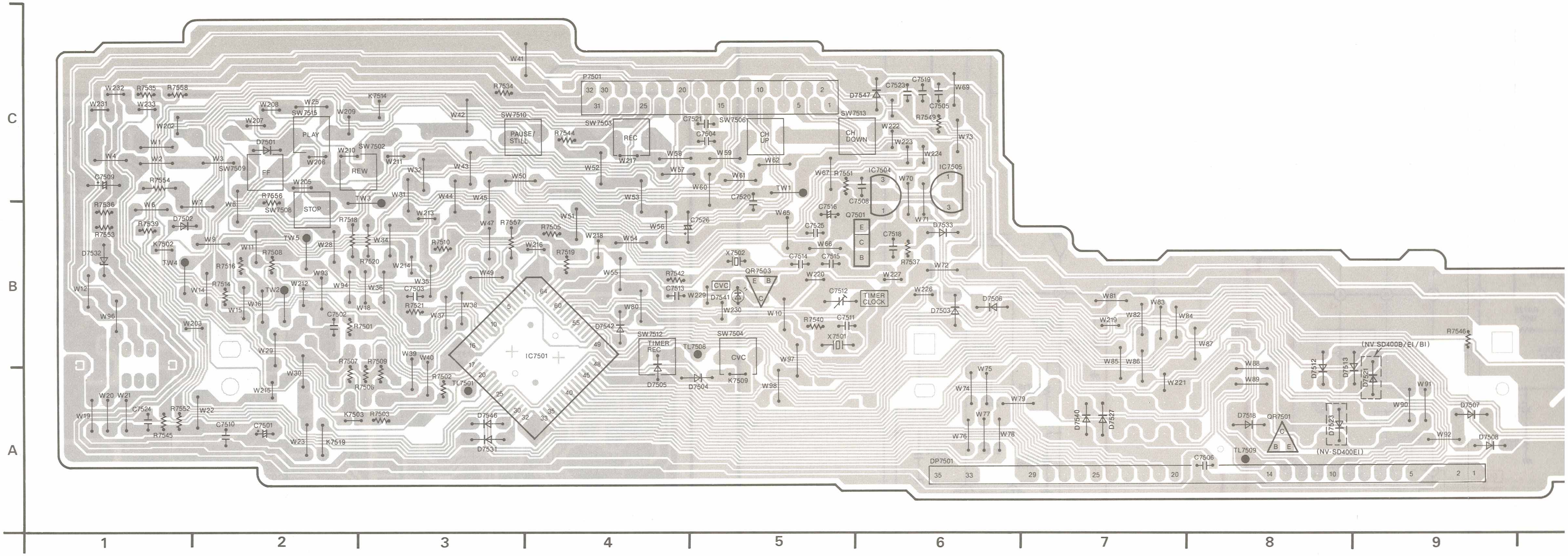

SEGMENT CONTROL SIGNAL
GRID
DP7501 VSL0325A
REC
OTR
REMAIN
SP ELP
VTR
IC7501-41
IC7501-40
IC7501-39
IC7501-38
IC7501-37
IC7501-36
IC7501-35
IC7501-34
IC7501-33
IC7501-32
IC7504
PST7023
POWER VOLTAGE DET
OUTPUT CIRCUIT
VCC
GND
RST
Q7501
2SD1991A
(REG.)
IC7505
S80743AL
VSS
VDD
OUT
QR7503
MUN2211
(AI ON Ⓗ:ON)
D7541
HLMK-D315
IC7501
M37507V4BW
X7501
VSX0606
X7502
VSX0094
TIMER CLOCK
TL7509
TL7501
TL7508
TW1
TW2
TW3
TW4
TW5
IC7501-59 STOP
5.0Vp-p (0.2μsec. div)
IC7501-58 STOP
1.4Vp-p (0.2μsec. div)
IC7501-62 STOP
2.5Vp-p (10μsec. div)
IC7501-19 STOP
5.0Vp-p (10msec. div)
IC7501-17 STOP
5.0Vp-p (10msec. div)
IC7501-14 STOP
5.0Vp-p (10msec. div)
IC7501-16 STOP
5.0Vp-p (10msec. div)
WHEN SERVICING THE SUPER CAPACITOR (C7517), DO NOT SHORT BOTH (+) AND (−) TERMINAL.
QR7504
MUN2211
(STAND BY Ⓛ:ON)
D7509
LN81RCPH
IC7503
RPM-675CBRX10
(IR RECEIVER)
R OUT GND VCC
TO SYSTEM CONTROL & SERVO SECTION P6001 (Page: 4-7/C-19)
P7501
OSD ON Ⓗ 1
STAND BY Ⓛ 2
TIMER BUS CLK 3
TIMER BUS LSN 4
RESET Ⓛ 5
6
TEST SIG Ⓛ 7
8
SEL MUTE Ⓗ 9
INPUT SEL A 10
S. DATA 11
S. CLOCK 12
TIMER BUS TLK 13
14
DEC Ⓛ 15
GND 16
GND 17
18
19
AFC S-CURVE 20
AUDIO DEF Ⓗ 21
FIP Ⓛ 22
FS CS 23
AI ON Ⓗ 24
UNREG 14V 25
FS CLOCK 26
FS DATA 27
SYSTEM CTL 5V 28
INPUT SEL B 29
UNREG −29V 30
HEATER (−) 31
HEATER (+) 32
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11


SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
DP7501 VSL0325A
REC
OTR
REMAIN
SP
ELP
VTR
C
F- F-
Pa Pb Pf Pg Pc Pe Pd Ph Pi Pj
10G 9G 8G 7G 6G 5G 4G 3G 2G 1G
F+ F+
IC7501-41
IC7501-40
IC7501-39
IC7501-38
IC7501-37
IC7501-36
IC7501-35
IC7501-34
IC7501-33
IC7501-32
R7536 15
R7553 18
C7509 50V10
D7532 MA4220
C7510 0.01
R7537 150
CVC
D7541 HLMK-D315
QR7503 MUN2211
(AI ON Ⓗ : ON)
10K
10K
TL7509
IC7501 M37507V4BW
SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 DIG6 DIG7 DIG8 DIG9 DIG10 DIG11 DIG12 DIG13 DIG14
SEG6
SEG5
SEG4
AI ON Ⓗ
OSD ON Ⓗ
MONO Ⓗ
VEE
VCC
X OUT
X IN
VSS
X CIN
X COUT
AGC IN
SEL MUTE Ⓗ
D7542 1SS254
C7511 56P
R7540 330
X7501 VSX0608
C7512 10P
TIMER CLOCK
C7523 0.01
R7539 100
C7513 27P
X7502 VSX0094
R7542 220K
C7514 22P
R7535 1300
R7534 1300
IC7501-59 STOP 5.0Vp-p (0.2μsec. div)
IC7501-58 STOP 1.4Vp-p (0.2μsec. div)
IC7501-19 STOP 5.0Vp-p (10msec. div)
IC7501-62 STOP 2.5Vp-p (10μsec. div)
IC7501-17 STOP 5.0Vp-p (10msec. div)
DIG 15
INSEL B
A DEF Ⓗ
P20
P21
P22
P23
P24
FIP Ⓛ
STAND BY Ⓛ
D (JOG 1)
128Hz
T TLK
T LSN
T CLK
INSEL A
AFC(S)
DEC Ⓛ
AFC DEF Ⓗ
SYNC Ⓛ
IC CLK
IR
MEMORY CS Ⓛ
FS CS
(JOG 2)
POW FAIL Ⓛ
RST Ⓛ
S CLK
S DATA IN
S DATA OUT
D7531 1SS254
D7546 1SS254
R7545 10K
R7552 10K
C7506 100P
C7524 0.01
TL7508
TL7501
R7503 220
R7502 220
R7501 220
TW4
TW2
TW3
C7501 6V47
C7505 0.01
QR7504 MUN2211
(STAND BY Ⓛ : ON)
10K
10K
D7509 LN81RCPH
R7512 220
R7557 220
R7521 220
C7502 0.1
TW5
C7504 0.01
C7520 0.01
R7556 220
R7508 3300
R7507 3300
R7506 3300
R7519 3300
R7505 3300
R7510 3300
R7509 3300
R7516 3300
IC7503 RPM-675CBRX10
(IR RECEIVER)
R OUT GND VCC
R7515 47
C7507 6V47
IC7501-14 STOP 5.0Vp-p (10msec. div)
IC7501-16 STOP 5.0Vp-p (10msec. div)
PLAY SW7515 EVQ11409K
STOP SW7508 EVQ11409K
D7512 1SS254
D7501 MA73
REW SW7502 EVQ11409K
FF SW7509 EVQ11409K
D7513 1SS254
D7502 MA73
(NV-SD400EI/BI) ONLY
D7521 1SS254
REC SW7503 EVQ11409K
PAUSE/ STILL SW7510 EVQ11409K
D7503 1SS254
D7515 1SS254
CVC SW7504 EVQ11409K
D7504 1SS254
(NV-SD400EI) ONLY
D7523 1SS254
TIMER REC SW7512 EVQ11409K
D7505 MA73
CH UP SW7506 EVQ11409K
CH DOWN SW7513 EVQ11409K
D7506 1SS254
POWER SW7514 EVQ11409K
D7507 1SS254
EJECT SW7507 EVQ11409K
D7508 1SS254
D7527 1SS254
22K
22K
QR7501 MUN2112
(TEST SIG Ⓛ : ON)
D7518 1SS254
D7540 1SS254
C7519 0.01
4
5
6
7
8
9
10
11
12
13
14

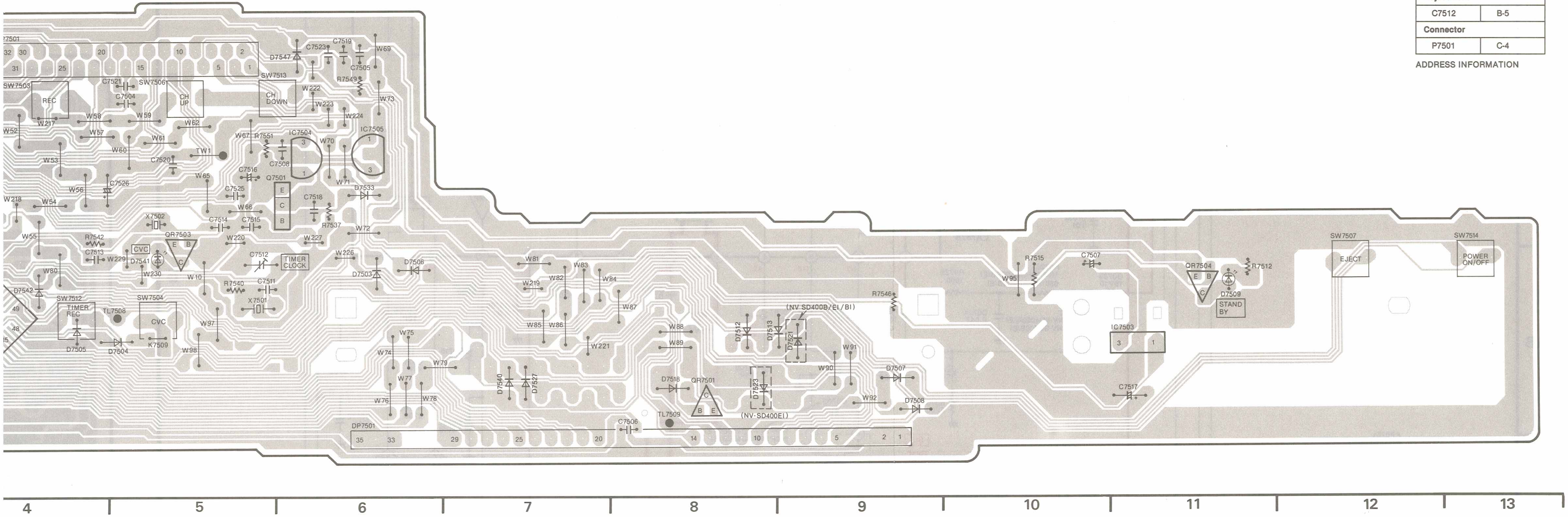
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-17. TIMER C.B.A. (VEP07817G: NV-SD400EG) (VEP07817N: NV-SD400EI) (VEP07817M: NV-SD400B/BI)


C
B
A
1
2
3
4
5
6
7
8
9
IC7501
IC7504
IC7505
QR7501
QR7503
Q7501
P7501
DP7501
SW7502
REW
SW7503
REC
SW7504
CVC
SW7506
CH UP
SW7508
STOP
SW7509
FF
SW7510
PAUSE/STILL
SW7512
TIMER REC
SW7513
CH DOWN
SW7515
PLAY
TIMER CLOCK
X7501
X7502
TL7501
TL7508
TL7509
TW1
TW2
TW3
TW4
TW5
(NV-SD400B/EI/BI)
(NV-SD400EI)
D7501
D7502
D7503
D7504
D7505
D7506
D7507
D7508
D7512
D7513
D7518
D7521
D7523
D7527
D7531
D7532
D7533
D7540
D7541
D7542
D7546
D7547
C7501
C7502
C7503
C7504
C7505
C7506
C7508
C7509
C7510
C7511
C7512
C7513
C7514
C7515
C7516
C7518
C7519
C7520
C7521
C7523
C7524
C7525
C7526
R7501
R7502
R7503
R7505
R7506
R7507
R7508
R7509
R7510
R7514
R7516
R7518
R7519
R7520
R7521
R7534
R7535
R7536
R7537
R7539
R7540
R7542
R7544
R7545
R7546
R7549
R7551
R7552
R7553
R7554
R7556
R7557
R7558
K7502
K7503
K7509
K7514
K7519

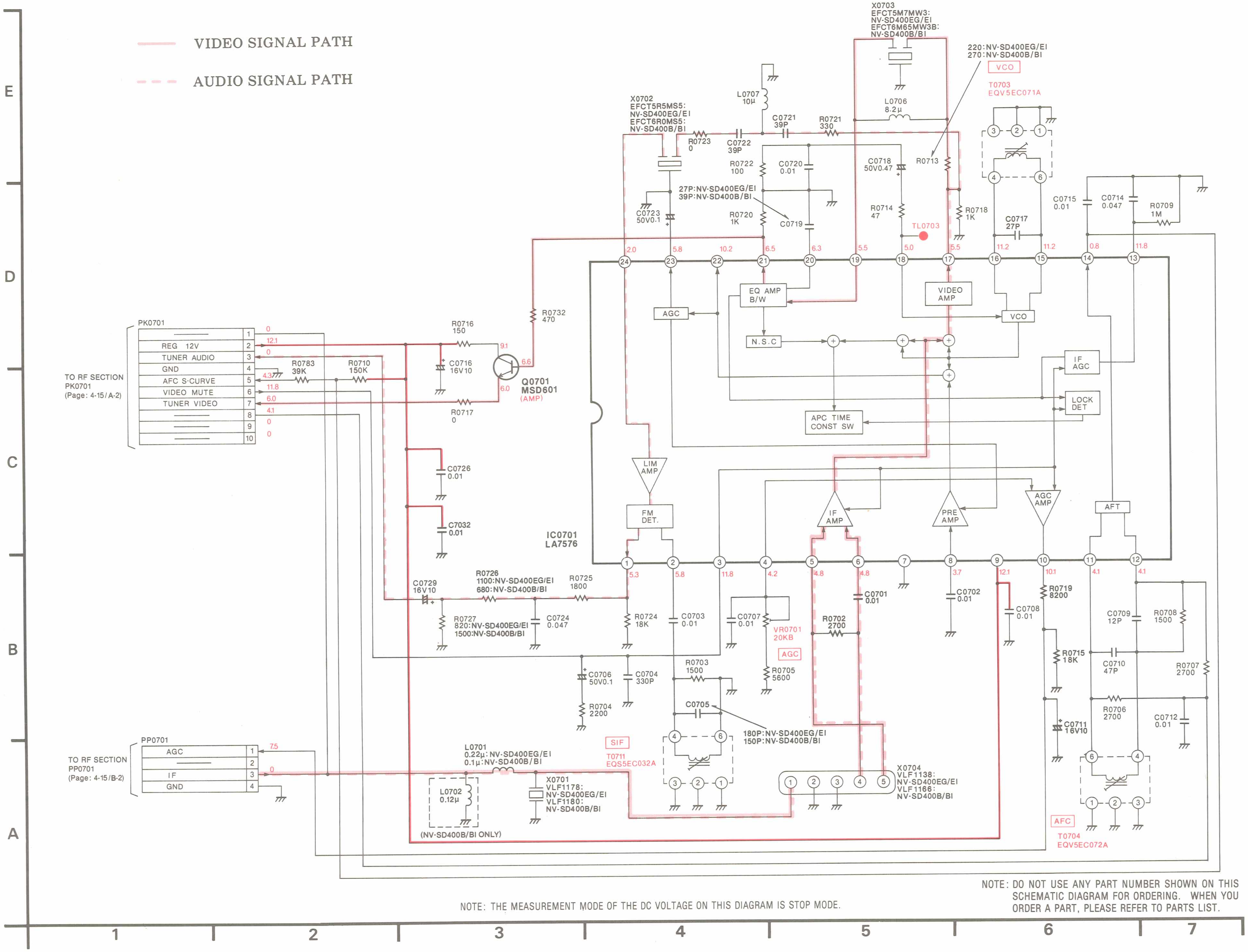
V-SD400EI) (VEP07817M: NV-SD400B/BI)


P7501
32
30
20
10
2
31
25
15
5
1
SW7503
REC
C7521
SW7506
CH UP
SW7513
CH DOWN
D7547
C7523
C7519
C7505
W69
R7549
W222
W223
W73
W224
IC7505
C7504
W58
W59
W217
W52
W57
W62
W60
W61
TW1
W67
R7551
IC7504
C7508
W70
W53
C7520
C7516
Q7501
E
C
B
W65
C7526
W56
C7525
W71
D7533
W218
W54
W66
C7518
R7537
X7502
C7514
C7515
W72
W55
R7542
QR7503
W220
W227
C7513
CVC
W229
D7541
W230
W10
C7512
TIMER CLOCK
W226
D7503
D7506
W80
D7542
R7540
C7511
X7501
SW7512
TIMER REC
TL7508
SW7504
CVC
W97
D7505
D7504
K7509
W98
W81
W83
W219
W82
W84
W87
W85
W86
W221
W75
W74
W79
W77
W76
W78
D7540
D7527
W88
W89
D7518
QR7501
TL7509
C7506
D7512
D7513
D7521
(NV-SD400B/EI/BI)
D7523
(NV-SD400EI)
W91
W90
D7507
W92
D7508
R7546
DP7501
35
33
29
25
20
14
10
5
2
1
W95
R7515
C7507
QR7504
R7512
D7509
STAND BY
IC7503
3
1
C7517
SW7507
EJECT
SW7514
POWER ON/OFF
4
5
6
7
8
9
10
11
12
13

TIMER C.B.A.	
Transistor	
Q7501	B-5
Transistor & Resistor	
QR7501 QR7503 QR7504	A-8 B-5 B-11
Integrated Circuit	
IC7501 IC7503 IC7504 IC7505	B-4 A-11 C-6 C-6
Test Point	
TL7501 TL7508 TL7509 TW1 TW2 TW3 TW4 TW5	A-2 B-5 A-8 C-1 B-2 B-3 B-1 B-5
Adjustment	
C7512	B-5
Connector	
P7501	C-4

ADDRESS INFORMATION

4-18. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

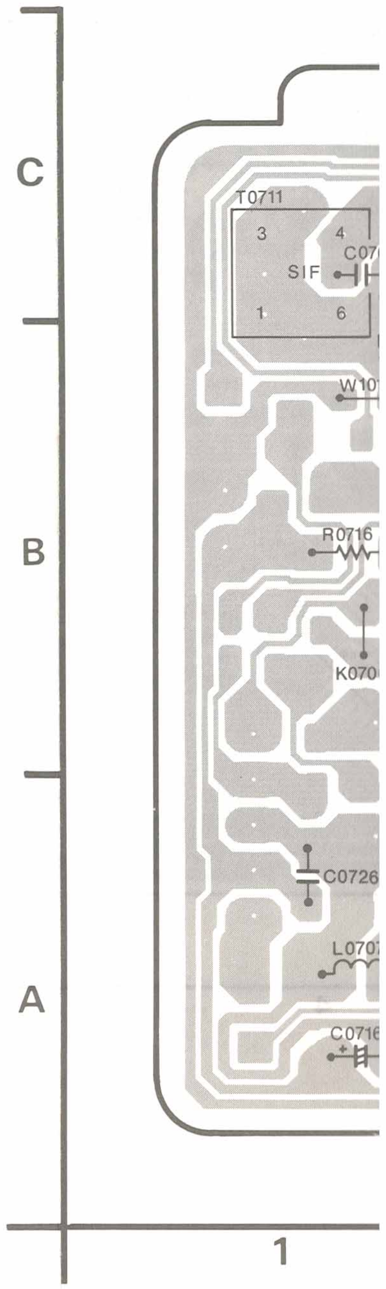

VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
E
D
C
B
A
1
2
3
4
5
6
7
PK0701
REG 12V
TUNER AUDIO
GND
AFC S-CURVE
VIDEO MUTE
TUNER VIDEO
TO RF SECTION PK0701 (Page: 4-15/A-2)
PP0701
AGC
IF
GND
TO RF SECTION PP0701 (Page: 4-15/B-2)
X0702 EFCT5R5MS5: NV-SD400EG/EI EFCT6R0MS5: NV-SD400B/BI
X0703 EFCT5M7MW3: NV-SD400EG/EI EFCT6M65MW3B: NV-SD400B/BI
220:NV-SD400EG/EI 270:NV-SD400B/BI
VCO
T0703 EQV5EC071A
L0707 10μ
L0706 8.2μ
C0721 39P
R0721 330
R0723 0
C0722 39P
R0722 100
C0720 0.01
C0718 50V0.47
R0713
27P:NV-SD400EG/EI 39P:NV-SD400B/BI
C0723 50V0.1
R0720 1K
C0719
R0714 47
TL0703
R0718 1K
C0715 0.01
C0714 0.047
R0709 1M
C0717 27P
EQ AMP B/W
AGC
N.S.C
VIDEO AMP
VCO
IF AGC
LOCK DET
APC TIME CONST SW
LIM AMP
FM DET.
IF AMP
PRE AMP
AGC AMP
AFT
IC0701 LA7576
R0732 470
R0716 150
C0716 16V10
Q0701 MSD601 (AMP)
R0783 39K
R0710 150K
R0717 0
C0726 0.01
C7032 0.01
C0729 16V10
R0726 1100:NV-SD400EG/EI 680:NV-SD400B/BI
R0725 1800
R0727 820:NV-SD400EG/EI 1500:NV-SD400B/BI
C0724 0.047
R0724 18K
C0703 0.01
C0707 0.01
VR0701 20KB
AGC
R0705 5600
R0702 2700
C0701 0.01
C0702 0.01
C0708 0.01
R0719 8200
R0715 18K
C0709 12P
R0708 1500
C0710 47P
R0707 2700
R0706 2700
C0712 0.01
C0711 16V10
C0706 50V0.1
C0704 330P
R0704 2200
R0703 1500
C0705
180P:NV-SD400EG/EI 150P:NV-SD400B/BI
SIF
T0711 EQS5EC032A
L0701 0.22μ:NV-SD400EG/EI 0.1μ:NV-SD400B/BI
L0702 0.12μ
(NV-SD400B/BI ONLY)
X0701 VLF1178: NV-SD400EG/EI VLF1180: NV-SD400B/BI
X0704 VLF1138: NV-SD400EG/EI VLF1166: NV-SD400B/BI
AFC
T0704 EQV5EC072A

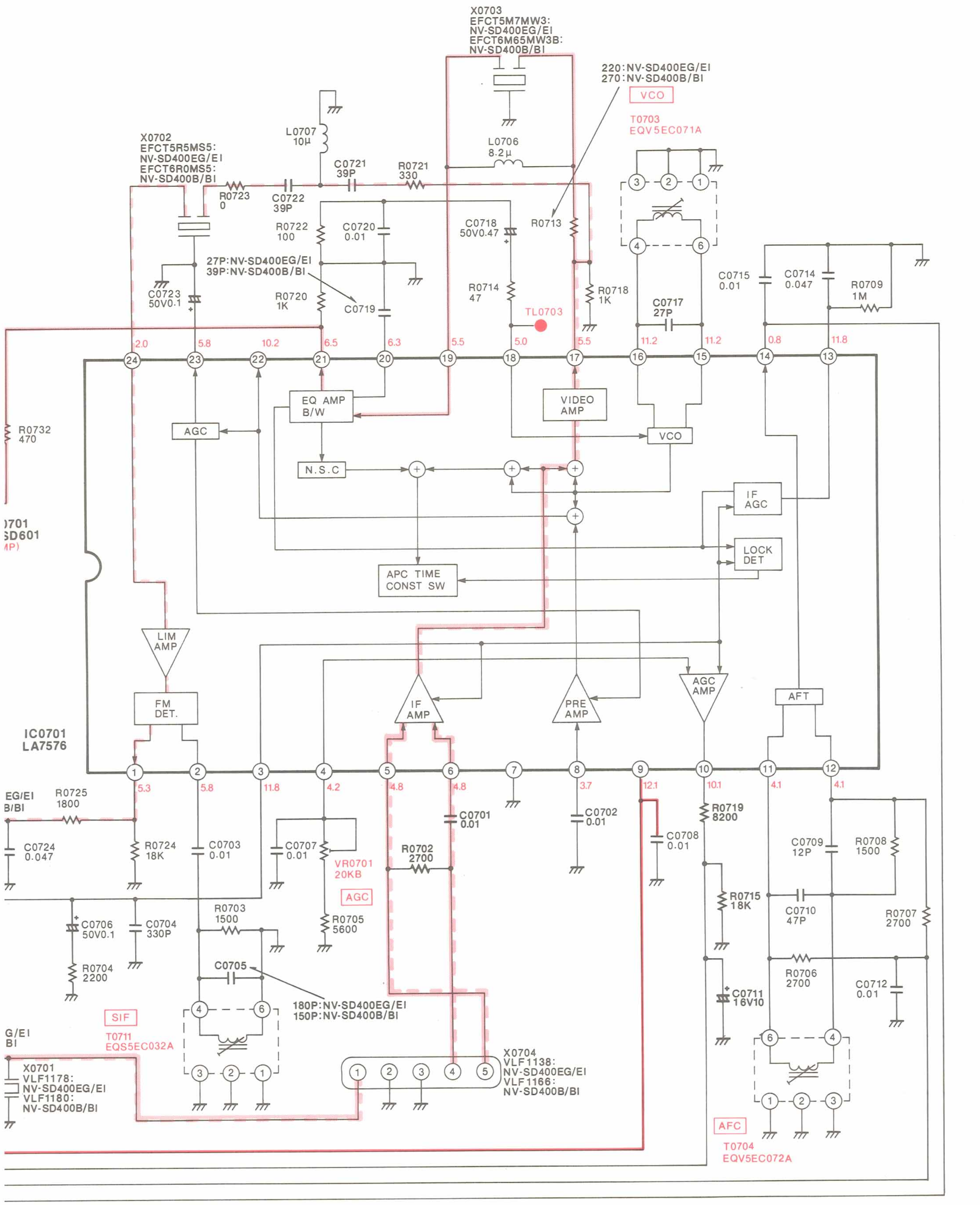
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-19. TV DEMO

(VEP07801


C
B
A
1
T0711
SIF
W10
R0716
K070
C0726
L070
C0716


X0703
EFCT5M7MW3:
NV-SD400EG/EI
EFCT6M65MW3B:
NV-SD400B/BI
220:NV-SD400EG/EI
270:NV-SD400B/BI
VCO
T0703
EQV5EC071A
X0702
EFCT5R5MS5:
NV-SD400EG/EI
EFCT6R0MS5:
NV-SD400B/BI
L0707
10µ
L0706
8.2µ
C0721
39P
R0721
330
R0723
0
C0722
39P
R0722
100
C0720
0.01
C0718
50V0.47
R0713
27P:NV-SD400EG/EI
39P:NV-SD400B/BI
C0723
50V0.1
R0720
1K
C0719
R0714
47
TL0703
R0718
1K
C0717
27P
C0715
0.01
C0714
0.047
R0709
1M
R0732
470
EQ AMP
B/W
VIDEO
AMP
AGC
VCO
N.S.C
IF
AGC
LOCK
DET
APC TIME
CONST SW
LIM
AMP
FM
DET.
IF
AMP
PRE
AMP
AGC
AMP
AFT
IC0701
LA7576
R0725
1800
C0724
0.047
R0724
18K
C0703
0.01
C0707
0.01
VR0701
20KB
AGC
R0702
2700
C0701
0.01
C0702
0.01
C0708
0.01
R0719
8200
C0709
12P
R0708
1500
R0715
18K
C0710
47P
R0707
2700
C0706
50V0.1
C0704
330P
R0703
1500
R0705
5600
R0704
2200
C0705
180P:NV-SD400EG/EI
150P:NV-SD400B/BI
R0706
2700
C0712
0.01
C0711
16V10
SIF
T0711
EQS5EC032A
X0701
VLF1178:
NV-SD400EG/EI
VLF1180:
NV-SD400B/BI
X0704
VLF1138:
NV-SD400EG/EI
VLF1166:
NV-SD400B/BI
AFC
T0704
EQV5EC072A
4
5
6
7

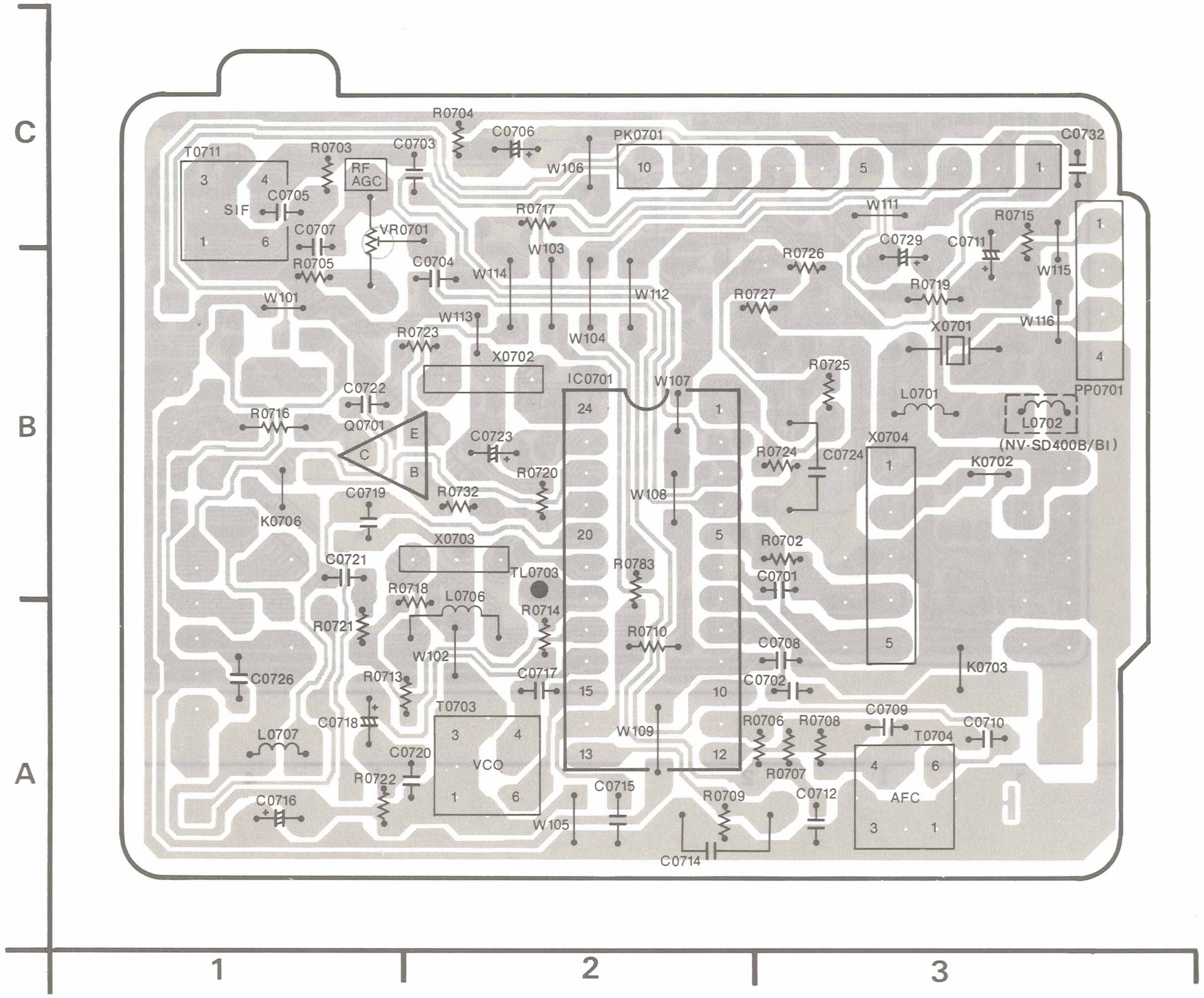
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

4-19. TV DEMODULATOR PACK C.B.A. (VEP07801A: NV-SD400EG/EI) (VEP07801D: NV-SD400B) (VEP07801E: NV-SD400BI)

TV DEMODULATOR PACK C.B.A.	
Transistor	
Q0701	B-1
Integrated Circuit	
IC0701	B-2
Test Point	
TL0703	B-2
Adjustment	
T0703 T0704 T0711 VR0701	A-2 A-3 C-1 C-1
Connector	
PK0701 PP0701	C-2 C-3

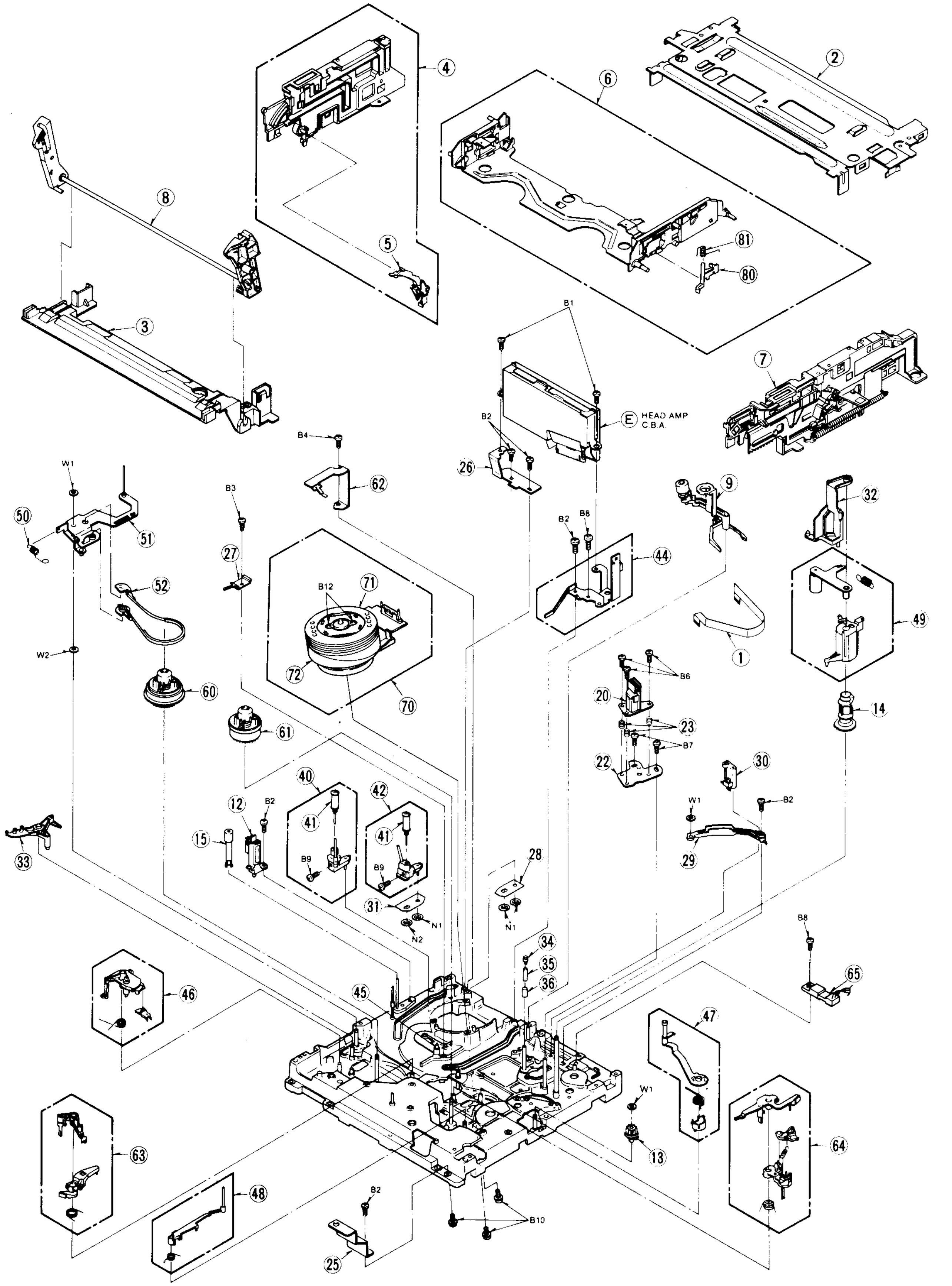
ADDRESS INFORMATION


C
B
A
1
2
3
T0711
SIF
R0703
C0703
R0704
C0706
PK0701
C0732
RF AGC
C0705
C0707
VR0701
R0705
C0704
W101
W106
W114
R0717
W103
W113
W104
W112
W111
R0715
C0729
C0711
R0726
R0727
R0719
W115
W116
X0701
R0723
X0702
IC0701
W107
R0725
PP0701
C0722
Q0701
R0716
C0723
R0720
R0732
C0719
K0706
X0703
W108
L0701
L0702
(NV-SD400B/BI)
R0724
C0724
X0704
K0702
C0721
TL0703
R0783
R0702
C0701
R0718
L0706
R0714
R0721
R0710
C0708
W102
C0702
K0703
C0726
R0713
C0717
T0703
VCO
W109
R0706
R0708
C0709
C0710
T0704
C0718
L0707
C0720
R0722
C0715
R0707
R0709
C0712
AFC
C0716
W105
C0714

SECTION 5
EXPLODED VIEWS & PARTS LIST

5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

❶ CHASSIS PARTS SECTION (1)

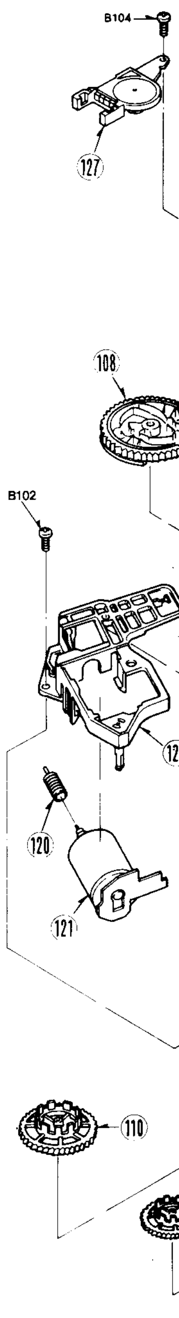


Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VWJ0743	FLEXIBLE CABLE (6P)	1	P4002-P1501
2(1)		VMA8644	TOP PLATE	1	
3(1)		VMA8787	CASSETTE GUIDE	1	
4(1)		VXA4660	SIDE PLATE (L) UNIT	1	
5(1)		VML2902	OPENER LEVER	1	
6(1)		VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)		VXA4806	SIDE PLATE (R) UNIT	1	
8(1)		VXP1339	MAIN SHAFT UNIT	1	
9(1)		VXL2440	CLEANER ARM UNIT	1	
12(1)		VBS0052	FE HEAD	1	
13(1)		VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)		VDG0886	PINCH CAM GEAR	1	
15(1)		VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)		VED0205	A/C HEAD (1) UNIT	1	
22(1)		VMA8624	A/C HEAD BASE	1	
23(1)		VMB2515	A/C HEAD SPRING	3	
25(1)		VMA8761	MOUNT ANGLE	1	
26(1)		VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27(1)		VMC0917	EARTH SPRING	1	
28(1)		VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)		VMD2078	P5 STOPPER BASE	1	
30(1)		VXA4927	P5 POST STOPPER	1	
31(1)		VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)		VMD2101	OPENER PIECE	1	
33(1)		VML2776	TENSION SPRING ARM	1	
34(1)		VMX1544	P4 UPPER LIMITER	1	
35(1)		VMX2175	P4 SLEEVE	1	
36(1)		VMX2176	P4 LOWER LIMITER	1	
40(1)		VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)		VXP1415	ROLLER POST	2	
42(1)		VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)		VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)		VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)		VXL2310	REVIEW ARM UNIT	1	
47(1)		VXL2306	P5 ARM UNIT	1	
48(1)		VXL2394	TAKE UP TENSION REGULATOR	1	
			ARM UNIT		
49(1)		VXL2246	PINCH ARM UNIT	1	
50(1)		VMB2434	TENSION SPRING	1	
51(1)		VXL2309	TENSION ARM (1) UNIT	1	
52(1)		VXZ0310	TENSION BAND UNIT	1	
60(1)		VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)		VXR0222	TAKE UP REEL TABLE UNIT	1	
62(1)		VXS0114	EARTH PLATE	1	
63(1)		VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)		VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)		2SB941PSW	POWER TRANSISTOR	1	
70(1)		VEG1195	CYLINDER UNIT	1	[SUPPLIED FROM MBV]
71(1)		VEH0705	UPPER CYLINDER UNIT	1	[SUPPLIED FROM MBV]
72(1)		VJR0082	RT TERMINAL	1	
80(1)		VML2680	RELEASE LEVER	1	
81(1)		VMB2013	RELEASE SPRING	1	
B1(1)		VHD0773	SCREW	2	
B2(1)		XTV26+6F	SCREW	6	
B4(1)		XTN3+6FFZ	SCREW	1	
B3(1)		XTV26+4F	SCREW	1	
B6(1)		VHD0762	SCREW	3	
B7(1)		XTV26+6FZ	SCREW	2	
B8(1)		XTV26+8F	SCREW	2	
B9(1)		XQN2+AJ4	SCREW	2	
B10(1)		VHD0342	SCREW	3	
B12(1)		VHD0425	SCREW	2	
N1(1)		VHN0192	NUT	3	
N2(1)		VHN0193	NUT	1	
W1(1)		VMX2208	WASHER	3	
W2(1)		XWGV26D5G	WASHER	1	

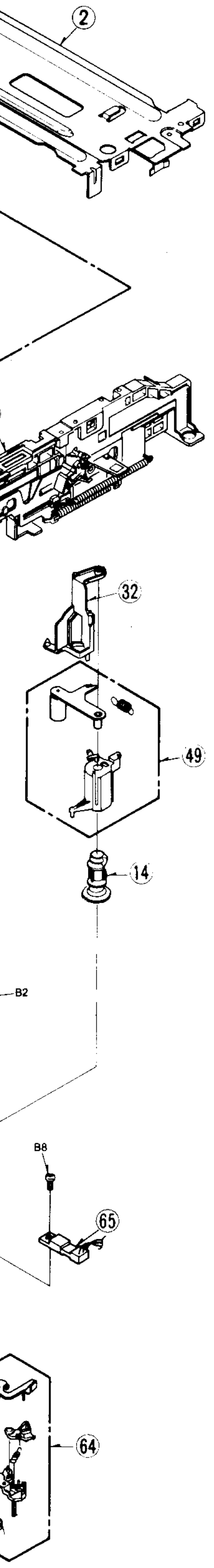
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
100(2)		VEK5927	CAPSTAN STATOR UNIT	1	
101(2)		VBK0061	FG HEAD	1	
103(2)		VMA8930	ROTOR STOPPER	1	
104(2)		VMX1927	OIL SEAL	2	
105(2)		VXD0140	HOUSING UNIT	1	
106(2)		VXP1519	CAPSTAN ROTOR UNIT	1	
107(2)		VXQ0297	THRUST SCREW UNIT	1	
108(2)		VDG0913	MAIN CAM GEAR	1	
109(2)		VDG0956	SUPPLY REEL GEAR	1	
110(2)		VDG0957	TAKE UP REEL GEAR	1	
111(2)		VDG0868	WORM WHEEL GEAR	1	
112(2)		VDG0885	SUB CAM GEAR	1	
113(2)		VDV0235	TIMING BELT	1	
120(2)		VDG0866	WORM GEAR	1	
121(2)		VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)		VMD1942	MOTOR BRACKET	1	
126(2)		VML2725	IDLER CONTROL LEVER	1	
127(2)		VSS0365	MODE SW	1	
128(2)		VXA5138	SS BRAKE BASE UNIT	1	
129(2)		VXA4799	TENSION ROLLER UNIT	1	
140(2)		VXL2378	IDLER ARM UNIT	1	
141(2)		VXL2372	DIRECT LEVER UNIT	1	
142(2)		VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)		VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)		VXL2307	MAIN LEVER UNIT	1	
145(2)		VXP1409	CENTRE CLUTCH	1	
B102(2)		XTV26+8F	SCREW	1	
B103(2)		XTV26+6F	SCREW	3	
B104(2)		VHD0753	SCREW	4	
B105(2)		VHD0754	SCREW	1	
B106(2)		XSB26+4FZ	SCREW	1	
W101(2)		VMX2208	WASHER	4	

❷ CHASS



T

T PARTS LIST

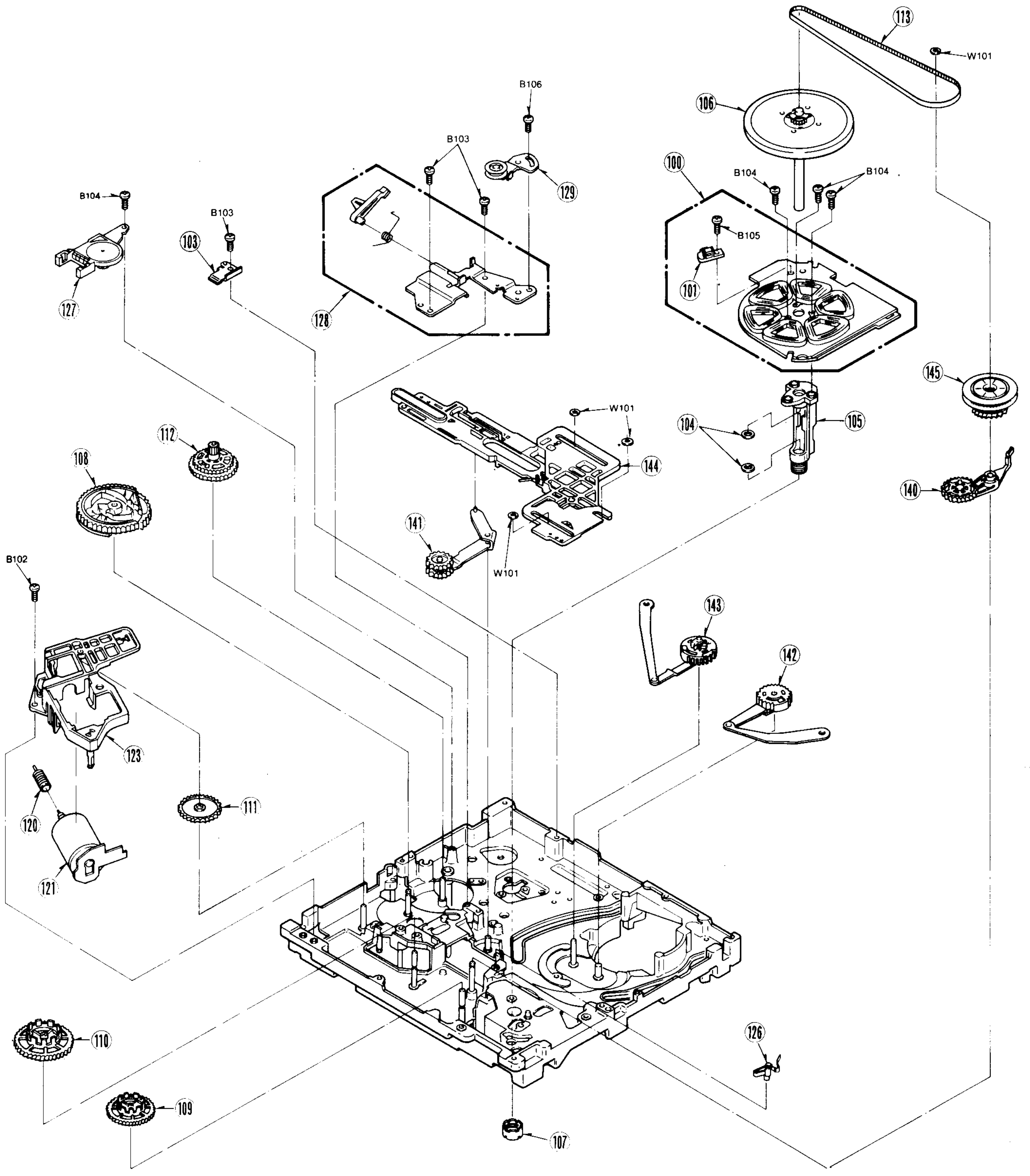


Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

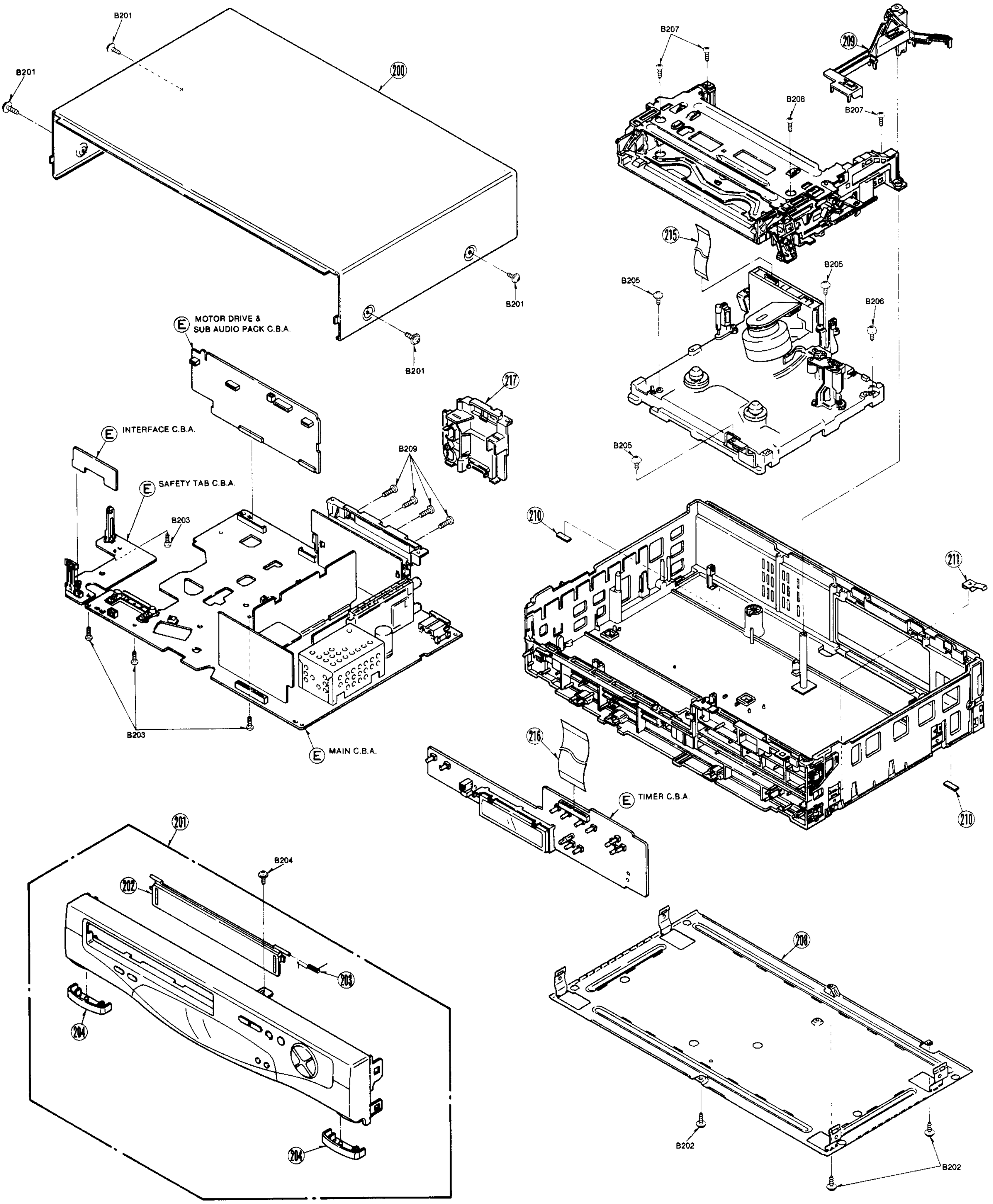
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VWJ0743	FLEXIBLE CABLE (6P)	1	P4002-P1501
2(1)		VMA8644	TOP PLATE	1	
3(1)		VMA8787	CASSETTE GUIDE	1	
4(1)		VXA4660	SIDE PLATE (L) UNIT	1	
5(1)		VML2902	OPENER LEVER	1	
6(1)		VXA4661	CASSETTE HOLDER PLATE UNIT	1	
7(1)		VXA4806	SIDE PLATE (R) UNIT	1	
8(1)		VXP1339	MAIN SHAFT UNIT	1	
9(1)		VXL2440	CLEANER ARM UNIT	1	
12(1)		VBS0052	FE HEAD	1	
13(1)		VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)		VDG0886	PINCH CAM GEAR	1	
15(1)		VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)		VED0205	A/C HEAD (1) UNIT	1	
22(1)		VMA8624	A/C HEAD BASE	1	
23(1)		VMB2515	A/C HEAD SPRING	3	
25(1)		VMA8761	MOUNT ANGLE	1	
26(1)		VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27(1)		VMC0917	EARTH SPRING	1	
28(1)		VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)		VMD2078	P5 STOPPER BASE	1	
30(1)		VXA4927	P5 POST STOPPER	1	
31(1)		VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)		VMD2101	OPENER PIECE	1	
33(1)		VML2776	TENSION SPRING ARM	1	
34(1)		VMX1544	P4 UPPER LIMITER	1	
35(1)		VMX2175	P4 SLEEVE	1	
36(1)		VMX2176	P4 LOWER LIMITER	1	
40(1)		VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)		VXP1415	ROLLER POST	2	
42(1)		VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)		VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)		VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)		VXL2310	REVIEW ARM UNIT	1	
47(1)		VXL2306	P5 ARM UNIT	1	
48(1)		VXL2394	TAKE UP TENSION REGULATOR ARM UNIT	1	
49(1)		VXL2246	PINCH ARM UNIT	1	
50(1)		VMB2434	TENSION SPRING	1	
51(1)		VXL2309	TENSION ARM (1) UNIT	1	
52(1)		VXZ0310	TENSION BAND UNIT	1	
60(1)		VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)		VXR0222	TAKE UP REEL TABLE UNIT	1	
62(1)		VXS0114	EARTH PLATE	1	
63(1)		VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)		VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)		2SB941PSW	POWER TRANSISTOR	1	
70(1)		VEG1195	CYLINDER UNIT	1	[SUPPLIED FROM MBV]
71(1)		VEH0705	UPPER CYLINDER UNIT	1	[SUPPLIED FROM MBV]
72(1)		VJR0082	RT TERMINAL	1	
80(1)		VML2680	RELEASE LEVER	1	
81(1)		VMB2013	RELEASE SPRING	1	
B1(1)		VHD0773	SCREW	2	
B2(1)		XTV26+6F	SCREW	6	
B4(1)		XTN3+6FFZ	SCREW	1	
B3(1)		XTV26+4F	SCREW	1	
B6(1)		VHD0762	SCREW	3	
B7(1)		XTV26+6FZ	SCREW	2	
B8(1)		XTV26+8F	SCREW	2	
B9(1)		XQN2+AJ4	SCREW	2	
B10(1)		VHD0342	SCREW	3	
B12(1)		VHD0425	SCREW	2	
N1(1)		VHN0192	NUT	3	
N2(1)		VHN0193	NUT	1	
W1(1)		VMX2208	WASHER	3	
W2(1)		XWGV26D5G	WASHER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
100(2)		VEK5927	CAPSTAN STATOR UNIT	1	
101(2)		VBK0061	FG HEAD	1	
103(2)		VMA8930	ROTOR STOPPER	1	
104(2)		VMX1927	OIL SEAL	2	
105(2)		VXD0140	HOUSING UNIT	1	
106(2)		VXP1519	CAPSTAN ROTOR UNIT	1	
107(2)		VXQ0297	THRUST SCREW UNIT	1	
108(2)		VDG0913	MAIN CAM GEAR	1	
109(2)		VDG0956	SUPPLY REEL GEAR	1	
110(2)		VDG0957	TAKE UP REEL GEAR	1	
111(2)		VDG0868	WORM WHEEL GEAR	1	
112(2)		VDG0885	SUB CAM GEAR	1	
113(2)		VDV0235	TIMING BELT	1	
120(2)		VDG0866	WORM GEAR	1	
121(2)		VEM0427	LOADING MOTOR (1) UNIT	1	
123(2)		VMD1942	MOTOR BRACKET	1	
126(2)		VML2725	IDLER CONTROL LEVER	1	
127(2)		VSS0365	MODE SW	1	
128(2)		VXA5138	SS BRAKE BASE UNIT	1	
129(2)		VXA4799	TENSION ROLLER UNIT	1	
140(2)		VXL2378	IDLER ARM UNIT	1	
141(2)		VXL2372	DIRECT LEVER UNIT	1	
142(2)		VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)		VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)		VXL2307	MAIN LEVER UNIT	1	
145(2)		VXP1409	CENTRE CLUTCH	1	
B102(2)		XTV26+8F	SCREW	1	
B103(2)		XTV26+6F	SCREW	3	
B104(2)		VHD0753	SCREW	4	
B105(2)		VHD0754	SCREW	1	
B106(2)		XSB26+4FZ	SCREW	1	
W101(2)		VMX2208	WASHER	4	

❷ CHASSIS PARTS SECTION (2)



❸ CASING PARTS SECTION

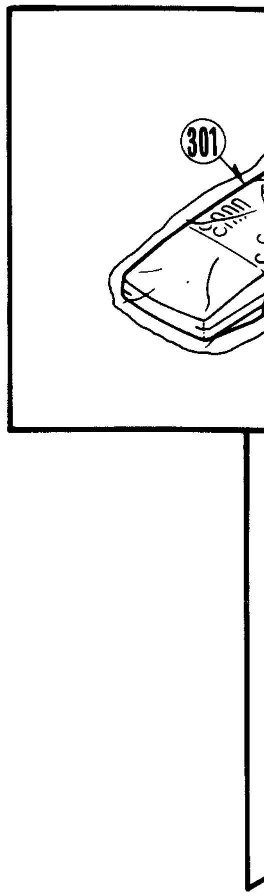


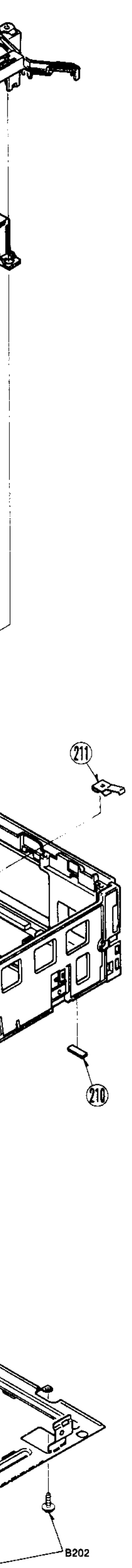
Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
200(3)		VGM1105	TOP PANEL	1	[SUPPLIED FROM MBV]
201(3)		VYP5700	FRONT PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400EG
201(3)		VYP5853	FRONT PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400EI
201(3)		VYP5779	FRONT PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
202(3)		VKF2293	BLINDER PANEL	1	[SUPPLIED FROM MBV]
203(3)		VMB2521	BLINDER SPRING	1	
204(3)		VKA0153	LEG	2	
208(3)		VKU0404	BOTTOM PLATE	1	
209(3)		VJF1134	PACK HOLDER	1	[SUPPLIED FROM MBV]
210(3)		VKA0122	FOOT	2	
211(3)		VMC1065	EARTH SPRING	1	
215(3)		VWJ0867	FLAT CARD CABLE	1	P501-P3002
216(3)		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
217(3)		VJH0790	ANTENNA JACK PLATE	1	[SUPPLIED FROM MBV]
B201(3)		XTW3+10TFZ	SCREW	4	
B202(3)		VHD0059	SCREW	3	
B203(3)		VHD0772	SCREW	4	
B204(3)		VHD0773	SCREW	3	
B205(3)		VHD0168	SCREW	3	
B206(3)		VHD0874	SCREW	1	
B207(3)		XTV26+8FR	SCREW	3	
B208(3)		XTV26+10F	SCREW	1	
B209(3)		XTV3+8FZ	SCREW	4	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
300(4)		VQT5866	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(FRENCH/ENGLISH)		<!>NV-SD400EG
300(4)		VQT5867	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(SWEDISH/DANISH)		<!>NV-SD400EG
300(4)		VQT5874	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(PORTUGUESE/FINNISH)		<!>NV-SD400EG
300(4)		VQT5954	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(GERMAN)		<!>NV-SD400EG
300(4)		VQT5955	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(ITALIAN/DUTCH)		<!>NV-SD400EG/EI
300(4)		VQT6095	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(GREEK)		<!>NV-SD400EI
300(4)		VQT5865	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(ENGLISH)		<!>NV-SD400B/BI
301(4)		VEQ1655	REMOTE CONTROLLER	1	[SUPPLIED FROM MBV]
					NV-SD400EG/EI
301(4)		VEQ1657	REMOTE CONTROLLER	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
304(4)		VJA0710	DIN RF CABLE	1	
305(4)		VJA0664	AC CORD	1	<!>NV-SD400EG/EI
305(4)		VJA0733	AC CORD	1	<!>NV-SD400B/BI
310(4)		VPK0825	ACCESSORIES PAKING	1	
311(4)		VPN4034	CUSHION (R)	1	
312(4)		VPN4035	CUSHION (L)	1	
315(4)		VPG7699	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400EG
315(4)		VPG7985	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400EI
315(4)		VPG7867	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400B
315(4)		VPG7868	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400BI
			SERVICE FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VFK0680	WHITE GREASE	1	
		VFK0851	CENTRE FIXING TOOL	1	
		VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	

❹ PACKING PAR

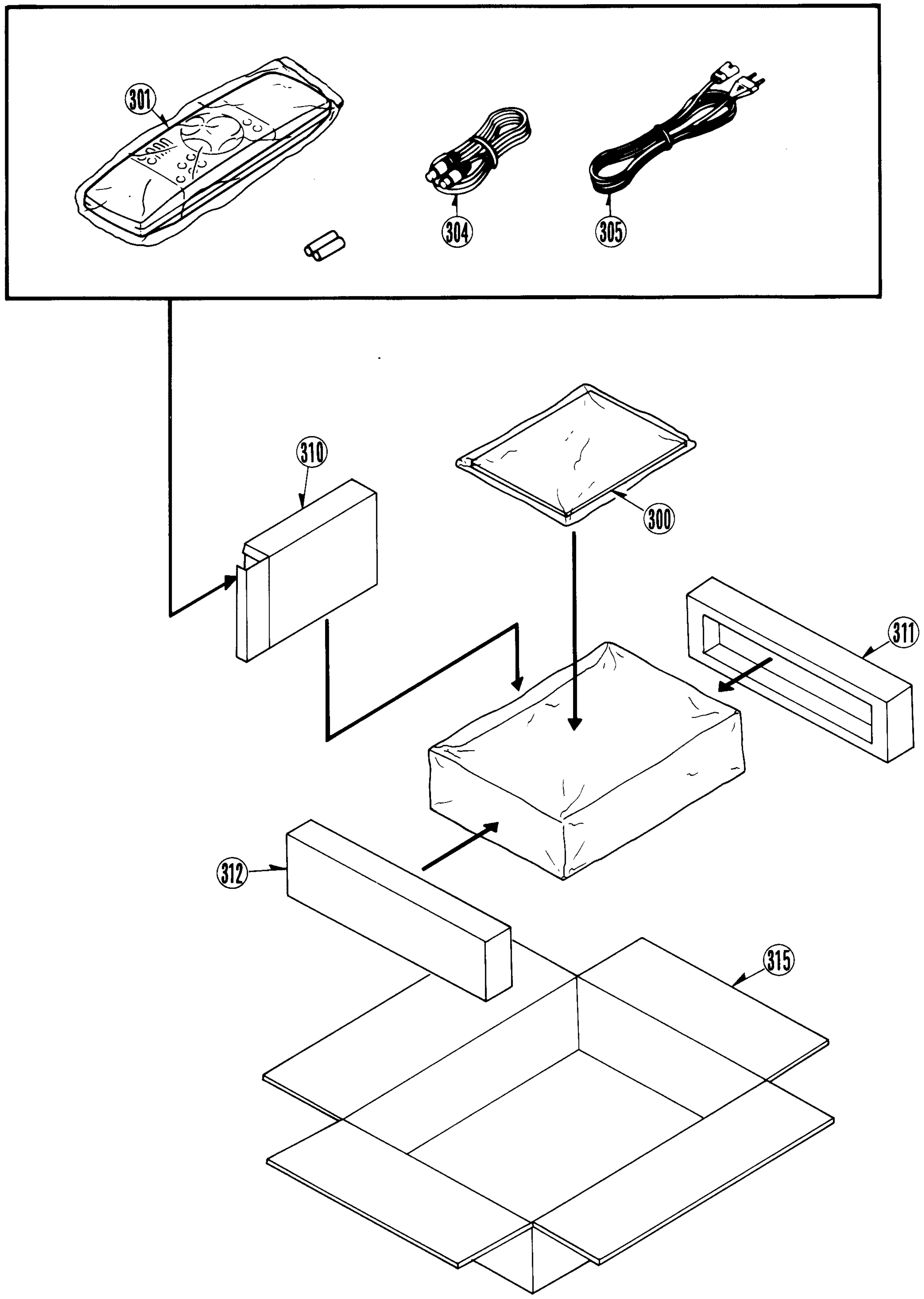




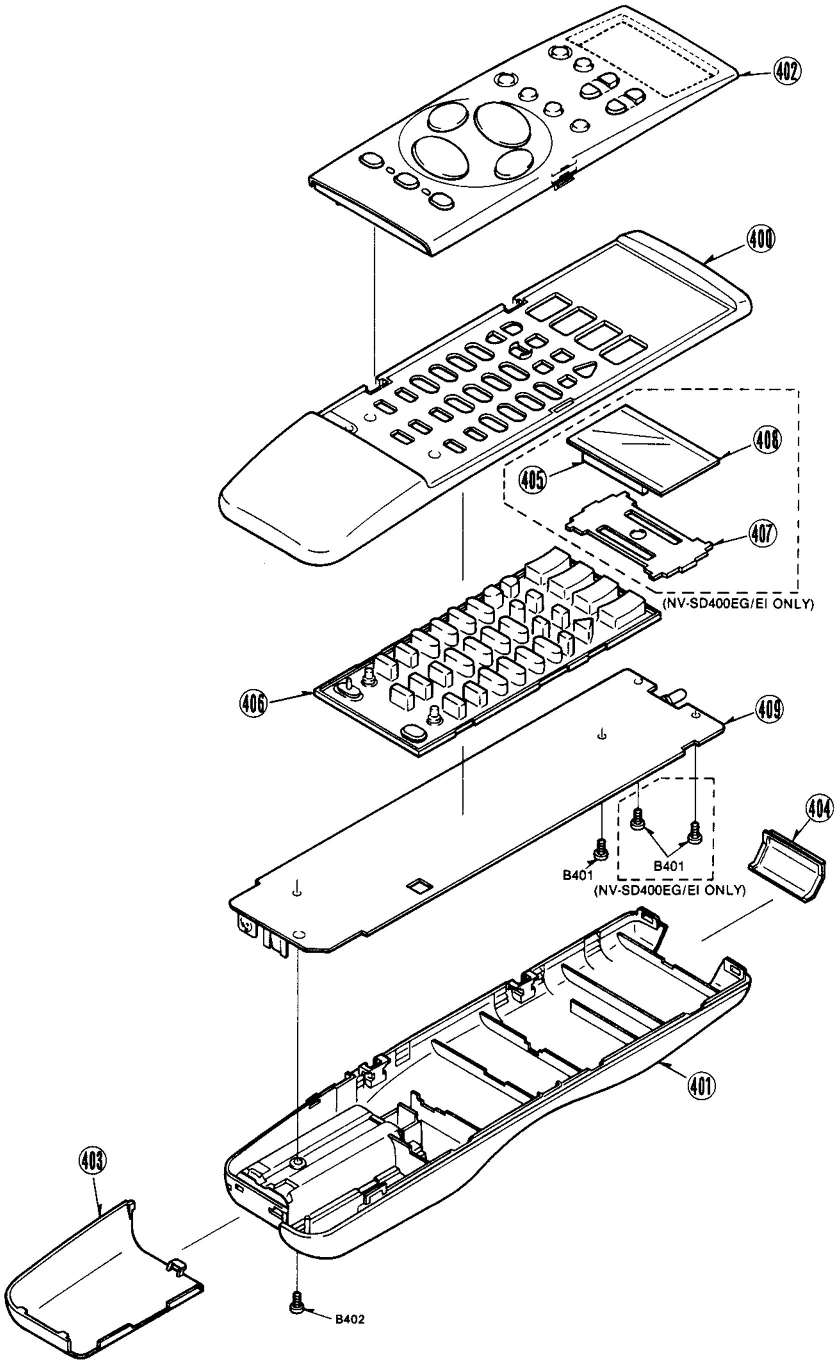
Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
200(3)		VGM1105	TOP PANEL	1	[SUPPLIED FROM MBV]
201(3)		VYP5700	FRONT PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400EG
201(3)		VYP5853	FRONT PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400EI
201(3)		VYP5779	FRONT PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
202(3)		VKF2293	BLINDER PANEL	1	[SUPPLIED FROM MBV]
203(3)		VMB2521	BLINDER SPRING	1	
204(3)		VKA0153	LEG	2	
208(3)		VKU0404	BOTTOM PLATE	1	
209(3)		VJF1134	PACK HOLDER	1	[SUPPLIED FROM MBV]
210(3)		VKA0122	FOOT	2	
211(3)		VMC1065	EARTH SPRING	1	
215(3)		VWJ0867	FLAT CARD CABLE	1	P501-P3002
216(3)		VWJ32C9160BB	FLAT CARD CABLE	1	P6001-P7501
217(3)		VJH0790	ANTENNA JACK PLATE	1	[SUPPLIED FROM MBV]
B201(3)		XTW3+10TFZ	SCREW	4	
B202(3)		VHD0059	SCREW	3	
B203(3)		VHD0772	SCREW	4	
B204(3)		VHD0773	SCREW	3	
B205(3)		VHD0168	SCREW	3	
B206(3)		VHD0874	SCREW	1	
B207(3)		XTV26+8FR	SCREW	3	
B208(3)		XTV26+10F	SCREW	1	
B209(3)		XTV3+8FZ	SCREW	4	
300(4)		VQT5866	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(FRENCH/ENGLISH)		<!>NV-SD400EG
300(4)		VQT5867	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(SWEDISH/DANISH)		<!>NV-SD400EG
300(4)		VQT5874	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(PORTUGUESE/FINNISH)		<!>NV-SD400EG
300(4)		VQT5954	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(GERMAN)		<!>NV-SD400EG
300(4)		VQT5955	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(ITALIAN/DUTCH)		<!>NV-SD400EG/EI
300(4)		VQT6095	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(GREEK)		<!>NV-SD400EI
300(4)		VQT5865	OPERATING INSTRUCTIONS	1	[SUPPLIED FROM MBV]
			(ENGLISH)		<!>NV-SD400B/BI
301(4)		VEQ1655	REMOTE CONTROLLER	1	[SUPPLIED FROM MBV]
					NV-SD400EG/EI
301(4)		VEQ1657	REMOTE CONTROLLER	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
304(4)		VJA0710	DIN RF CABLE	1	
305(4)		VJA0664	AC CORD	1	<!>NV-SD400EG/EI
305(4)		VJA0733	AC CORD	1	<!>NV-SD400B/BI
310(4)		VPK0825	ACCESSORIES PAKING	1	
311(4)		VPN4034	CUSHION (R)	1	
312(4)		VPN4035	CUSHION (L)	1	
315(4)		VPG7699	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400EG
315(4)		VPG7985	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400EI
315(4)		VPG7867	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400B
315(4)		VPG7868	PACKING	1	[SUPPLIED FROM MBV]
					NV-SD400BI
			SERVICE FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VFK0680	WHITE GREASE	1	
		VFK0851	CENTRE FIXING TOOL	1	
		VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	

❹ PACKING PARTS SECTION



❺ REMOTE CONTROLLER UNIT



Note: 1. * Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
400(5)		VYK6366	TOP COVER UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400EG/EI
400(5)		VYK6387	TOP COVER UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
401(5)		VYK5446	BOTTOM COVER UNIT	1	
402(5)		VYK6367	DOOR PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400EG/EI
402(5)		VYK6604	DOOR PANEL UNIT	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
403(5)		VKF2115	BATTERY COVER	1	
404(5)		VKW1802	IR WINDOW	1	
405(5)		VSQ0830	CONDUCTIVE RUBBER	2	NV-SD400EG/EI
406(5)		VSP0861	RUBBER CONTACT	1	[SUPPLIED FROM MBV]
					NV-SD400EG/EI
406(5)		VSP0870	RUBBER CONTACT	1	[SUPPLIED FROM MBV]
					NV-SD400B/BI
407(5)		VSQ0829	LCD SPACER	1	NV-SD400EG/EI
408(5)		VSL0319A	LCD	1	NV-SD400EG/EI
409(5)		----------	REMOTE CONTROLLER C.B.A.	1	THE C.B.A. IS NOT
					SUPPLIED AS SPARE
					PART.
B401(5)		XTB2+6G	SCREW	3	NV-SD400EG/EI
B401(5)		XTB2+6G	SCREW	1	NV-SD400B/BI
B402(5)		XTB2+8GFZ	SCREW	1	

5-2. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE : Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'■'show below the main assembled parts.
5.The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06976A	MAIN C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-9)		<!>(RTL)NV-SD400EG/EI
					INCLUDING THE
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03B46A),
					OSD PACK C.B.A.
					(VEP06993A),
					VIF C.B.A.
					(VEP07801A).
		VEP03B46A	LUMINANCE & CHROMINANCE	1	[SUPPLIED FROM MBV]
			PACK C.B.A.		(RTL)NV-SD400EG/EI
					INCLUDED IN MAIN
					C.B.A.(VEP06976A).
		VEP06993A	OSD PACK C.B.A.	1	[SUPPLIED FROM MBV]
					(RTL)NV-SD400EG/EI
					INCLUDED IN MAIN
					C.B.A.(VEP06976A).
		VEP07801A	TV DEMODULATOR PACK C.B.A.	1	[SUPPLIED FROM MBV]
					(RTL)NV-SD400EG/EI
					INCLUDED IN MAIN
					C.B.A.(VEP06976A).
		VEP06976C	MAIN C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-14)		<!>(RTL)NV-SD400B
					INCLUDING THE
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03B46A),
					OSD PACK C.B.A.
					(VEP06993C),
					VIF C.B.A.
					(VEP07801D).
		VEP03B46A	LUMINANCE & CHROMINANCE	1	[SUPPLIED FROM MBV]
			PACK C.B.A.		(RTL)NV-SD400B
					INCLUDED IN MAIN
					C.B.A.(VEP06976C).
		VEP06993C	OSD PACK C.B.A.	1	[SUPPLIED FROM MBV]
					(RTL)NV-SD400B
					INCLUDED IN MAIN
					C.B.A.(VEP06976C).
		VEP07801D	TV DEMODULATOR PACK C.B.A.	1	[SUPPLIED FROM MBV]
					(RTL)NV-SD400B
					INCLUDED IN MAIN
					C.B.A.(VEP06976C).
		VEP06976D	MAIN C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-19)		<!>(RTL)NV-SD400BI
					INCLUDING THE
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03B46A),
					OSD PACK C.B.A.
					(VEP06993C),
					VIF C.B.A.
					(VEP07801E).
		VEP03B46A	LUMINANCE & CRHOMINANCE	1	[SUPPLIED FROM MBV]
			PACK C.B.A.		(RTL)NV-SD400BI
					INCLUDED IN MAIN
					C.B.A.(VEP06976D).
		VEP06993C	OSD PACK C.B.A.	1	[SUPPLIED FROM MBV]
					(RTL)NV-SD400BI
					INCLUDED IN MAIN
					C.B.A.(VEP06976D).
		VEP07801E	TV DEMODULATOR PACK C.B.A.	1	[SUPPLIED FROM MBV]
					(RTL)NV-SD400BI
					INCLUDED IN MAIN
					C.B.A.(VEP06976D).
		VEP03B23A	INPUT/OUTPUT PACK C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-25)		(RTL)NV-SD400EG
		VEP03B23C	INPUT/OUTPUT PACK C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-25)		(RTL)NV-SD400B/BI
		VEP03B23L	INPUT/OUTPUT PACK C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-26)		(RTL)NV-SD400EI
		VEP04469E	MOTOR DRIVE C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-27)		(RTL)
		VEP05182GPE	HEAD AMP C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-28)		(RTL)
		VEP07817G	TIMER C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-28)		(RTL)NV-SD400EG
		VEP07817N	TIMER C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-29)		(RTL)NV-SD400EI
		VEP07817M	TIMER C.B.A.	1	[SUPPLIED FROM MBV]
			(Page:5-30)		(RTL)NV-SD400B/BI
		VEP00U88A	MAIN INTERFACE C.B.A.	1	(RTL)
			(Page:5-30)		
		VEP00U71A	S-TAB C.B.A.	1	(RTL)
			(Page:5-31)		
		----------	MOTOR C.B.A.	1	C.B.A. IS INCLUDED
			(Page:5-31)		IN LOADING MOTOR (1
					UNIT(VEM0427).
		VEP00D18B	RT CONNECTOR C.B.A.	1	(RTL)
		ENG47210G	TUNER	1	[SUPPLIED FROM MBV]
					<!>NV-SD400EG/EI
		ENG47211G	TUNER	1	[SUPPLIED FROM MBV]
					<!>NV-SD400B
		ENG47207G	TUNER	1	[SUPPLIED FROM MBV]
					<!>NV-SD400BI

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
F1101		XBA2C16TH15	FUSE	1	<!>
	■	VEP06976A	MAIN C.B.A.		[SUPPLIED FROM MBV]
					<!>(RTL)NV-SD400EG/EI
C301		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C302		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C303,04		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C305,06		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	2	
C308		ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C309		ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C310		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C311		ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C312		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C313		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C314		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C315		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C316		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C317		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C318		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C319		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C320		ECUM1H223KBN	C.CAPACITOR CH 50V 0.22U	1	
C321		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C322		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C323		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C325		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C326		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C327		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C328		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C329		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C330		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C331		ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C332		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C333		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C334		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C336		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C337		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C338,39		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C340		ECUX1E223ZFV	C.CAPACITOR CH 25V 0.022U	1	
C341		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C342		ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C360		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C361		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C362		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C363		ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C364		ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C365		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C381		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C382,83		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0701-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0705		ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C0706		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710		ECUM1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717		ECUM1H270JPV	C.CAPACITOR CH 50V 27P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0721,22		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C0723		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0724		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0726		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0729		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0732		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C801-04		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	4	
C806		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C808		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C813		ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C814		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C815		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C839		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C840		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C841		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C842		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C843		ECUX1E223ZFV	C.CAPACITOR CH 25V 0.022U	1	
C844		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C845		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C846		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C847		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C848		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C849		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C850		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C851		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C853		ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C854		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C856		ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C857		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C858		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C859		ECEA1HKAR33	E.CAPACITOR 50V 0.33	1	
C860		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C861		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C862		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C868,69		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C893		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C1004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C1006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1009		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C1010		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1012		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1013		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C1101		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1104		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1106		ECQE6104KF	P.CAPACITOR	1	
C1107		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1110,11		ECQU2A104MN	P.CAPACITOR	2	<!>
C1112		ECEC2GG330	E.CAPACITOR 400V 33U	1	
C1113		ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1114		ECCD3A470KGE	C.CAPACITOR 1kV 47P	1	
C1115		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116		ECEA1HGE470	E.CAPACITOR 50V 47U	1	
C1117		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C1118		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1120		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C1121		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C1131		EEUFA1E331B	E.CAPACITOR 25V 330P	1	
C1132		ECEA1DFZ331	E.CAPACITOR 20V 330U	1	
C1133		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1134		EEUFA1A391B	E.CAPACITOR 10V 390P	1	
C1135		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1136		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1137		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1138		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1140		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C1141		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1142		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1143		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1144,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C1147		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1148		ECQV1H124JM	P.CAPACITOR 50V 0.12U	1	[SUPPLIED FROM MBV]
C1149		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1150		ECA1CM101	E.CAPACITOR 16V 100U	1	
C1151		ECA1CM470	E.CAPACITOR 16V 47U	1	
C1153		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C2013		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022		ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2024		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26		ECUM1C105ZFN	C.CAPACITOR CH 16V 1P	2	
C2029,30		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2033		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C2040		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51		ECUM1C105ZFN	E.CAPACITOR 16V 1U	3	
C2052		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2053-55		ECUM1C105ZFN	E.CAPACITOR 16V 1U	3	
C3005		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3008		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1C105ZFN	E.CAPACITOR 16V 1U	1	
C3015		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3018		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3021		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3027		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3028		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3042,43		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C4008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4015		ECUM1H182JCN	C.CAPACITOR CH 50V 1800P	1	
C4016		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4017		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4018		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4019		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4020		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4021		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4022		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4023		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4024		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4026		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4028		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C4030		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4031		ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C4032		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C4033		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4040		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4041		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4042		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4043		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C4046		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007,08		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	E.CAPACITOR CH 16V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C7601,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7603		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7604		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7605		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7606		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7607		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7609		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7610,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7612		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7614		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7615		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7701		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C7702		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7703		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7704,05		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7706		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7707-10		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C7712		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7714		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7720		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7722		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7727		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7729		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7731		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7732		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7734		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7738		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7740,41		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7742		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7745		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7746,47		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7748		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7749		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C7750		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7751		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7753		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7756		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7758		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7761		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7762		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7763,64		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7765		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7766,67		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7768		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7769		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7771		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7773		ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7775		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7777		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
D381		MA141K	DIODE	1	
D382		MA143	DIODE	1	
D383		MA141K	DIODE	1	
D1004		MA4051-L	DIODE	1	
D1005		1SS355	DIODE	1	
D1006		MA4051-L	DIODE	1	
D1007		1SS355	DIODE	1	
D1102		ERA15-08	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105-07		ERA15-08	DIODE	3	<!>
D1108		RD10OE	DIODE	1	[SUPPLIED FROM MBV]
D1109,10		ERA15-08	DIODE	2	
D1111		MA4120-M	DIODE	1	
D1121		RL2Z	DIODE	1	
D1122		11EQS04	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D1127		1SS355	DIODE	1	
D1129		MA4043-L	DIODE	1	[SUPPLIED FROM MBV]
D1130		1SS254	DIODE	1	
D1132		1SS355	DIODE	1	
D2003-05		1SS254	DIODE	3	
D2007		MA151WA	DIODE	1	
D3001		1SS254	DIODE	1	
D3010		MA151K	DIODE	1	
D3011		1SS355	DIODE	1	
D4005		1SS254	DIODE	1	
D4007		1SS254	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D6001		LN59L.VT	LED	1	
D6002,03		1SS254	DIODE	2	
D6007		MA4075-L	DIODE	1	
D7601		MA4300M	DIODE	1	
D7605		1SS254	DIODE	1	
D7701		MA151WA	DIODE	1	
D7704		1SS254	DIODE	1	
DL802		EFDBR124A53T	DELAY	1	
DL7701		VLD0275	DELAY	1	[SUPPLIED FROM MBV]
F1101		XBA2C16TH15	FUSE	1	<!>
IC301		MSM7403MS	IC	1	
IC302		TDA9715H/A	IC	1	[SUPPLIED FROM MBV]
IC0701		LA7576	IC	1	
IC1001		HA17431PA	IC	1	
IC1101		TDA4605-3	IC	1	[SUPPLIED FROM MBV]
					<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC4002		LA7285	IC	1	
IC6001		MN67434VRTA	IC	1	[SUPPLIED FROM MBV]
IC6002,03		ON1387	IC	2	
IC7701		M27C512MBAA	IC	1	[SUPPLIED FROM MBV]
IC7702		MC74HCT573AW	IC	1	[SUPPLIED FROM MBV]
IC7703		M52055FP	IC	1	
IC7704		ST24C08C	IC	1	[SUPPLIED FROM MBV]
IC7705		TDA8501	IC	1	[SUPPLIED FROM MBV]
IC7706		P80C528FBP	IC	1	[SUPPLIED FROM MBV]
IC7707		MC74HC164D	IC	1	[SUPPLIED FROM MBV]
IC7708		SAA5281PM3	IC	1	[SUPPLIED FROM MBV]
IC7709		MC74HC161AD	IC	1	[SUPPLIED FROM MBV]
K301		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0702		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0703		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0706		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K801		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K802		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K805		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K806		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K807		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K851		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K2001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3004		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3011		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3012		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4008		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4022		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7601		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7604		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7701		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7705		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7709		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7714		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L301		ELESE330KA	COIL 33UH	1	
L302,03		ELESE390KA	COIL 39UH	2	
L304		ELESE101KA	COIL 100UH	1	
L306		ELESE121KA	COIL 120UH	1	
L307		ELESE101KA	COIL 100UH	1	
L308		VLQEL05S390J	COIL 39UH	1	
L0701		VLQ0163JR22	COIL H	1	
L0706		VLQEL05S8R2K	COIL H	1	
L0707		ELJFA100KB	COIL	1	
L802		ELESE101KA	COIL 100UH	1	
L803		ELESE270KA	COIL 27UH	1	
L805		VLQEL05S150K	COIL	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L808		ELESE6R8JA	COIL 6.8UH	1	
L809-11		ELESE101KA	COIL 100UH	3	
L812		VLP0125	COIL	1	
L1107,08		ELF18D290A2	COIL	2	<!>
L1109		VLP0074	INDUCTOR	1	
L1110		VLP0085	COIL	1	
L1112		VLP0125	COIL	1	
L1121		VLQ0611K220	COIL 22UH	1	
L1122		ELELN220KA	COIL 22UH	1	
L1123,24		ELESE101KA	COIL 100UH	2	
L3001		VLQ0599J3R3	COIL 3.3UH	1	
L3003		VLQ0599J6R8	COIL 6.8UH	1	
L3004		VLQ0599J120	COIL 120UH	1	
L3006		VLQ0599J101	COIL 100UH	1	
L3007		VLQ0599J680	COIL 68UH	1	
L3009		VLQ0599J680	COIL 68UH	1	
L3011		VLP0074	INDUCTOR	1	
L4001		VLQ0636	COIL H	1	
L7602		VLQ0599J1R0	COIL 1UH	1	
L7603-05		VLQ0599J680	COIL 68UH	3	
L7607,08		VLQ0599J680	COIL 68UH	2	
L7701		ELESE100KA	COIL 10UH	1	
L7702		ELESE3R3KA	COIL 3.3UH	1	
L7704		ELESE100KA	COIL 10UH	1	
L7705,06		ELESE101KA	COIL 100UH	2	
L7708		ELESE270KA	COIL 27UH	1	
P1101		VJS3306	AC INLET	1	<!>
P2001		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P3002		VJS3537A014G	CONNECTOR (FEMALE) 14P	1	
P6001		VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P6004		VJS3317A004	CONNECTOR (FEMALE) 4P	1	
PK0701		VJR0816E010W	CONNECTOR 10P	1	
PP0701		VJP3589E004B	CONNECTOR (MALE) 4P	1	
PP2001		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP2002		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP3901		VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3902		VJP3042A018W	CONNECTOR (MALE) 18P	1	
PP6005		VJP3042A003W	CONNECTOR (MALE) 3P	1	
PP7701		VJP3043A010W	CONNECTOR (MALE) 10P	1	
PP7702		VJP3043A009W	CONNECTOR (MALE) 9P	1	
PS301		VJR0819	CONNECTOR	1	[SUPPLIED FROM MBV]
PS7701		VJS3043B009W	CONNECTOR (FEMALE) 9P	1	
PS7702		VJS3043B010W	CONNECTOR (FEMALE) 10P	1	
Q301		2SC3930	TRANSISTOR	1	
Q360		2SD1819A	TRANSISTOR	1	
Q361		2SB1218A	TRANSISTOR	1	
Q362		2SB1218A-R	TRANSISTOR	1	
Q0701		MSD601-S	TRANSISTOR	1	
Q804		2SC3930	TRANSISTOR	1	
Q1001		2SD601A	TRANSISTOR	1	
Q1002-04		2SD1996-S	TRANSISTOR	3	
Q1005		2SD602A	TRANSISTOR	1	
Q1101		STP3N60FI-M	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q1102		2SD601A	TRANSISTOR	1	
Q1104		2SB1321A	TRANSISTOR	1	
Q1105		2SD601A	TRANSISTOR	1	
Q1106		2SD2544OPQA	TRANSISTOR	1	
Q1107		MOC8104FR2V	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q1111		MOC8104FR2V	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q3002		MSB710	TRANSISTOR	1	
Q3003		2SB709A	TRANSISTOR	1	
Q3004		MSD601	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q3005		MSC2295	TRANSISTOR	1	
Q3010		MSB709-R	TRANSISTOR	1	
Q4001		2SD601A-R	TRANSISTOR	1	
Q6001		MSB709	TRANSISTOR	1	
Q6002		PN205L-NC.VT	PHOTO TRANSISTOR	1	
Q7601		2SB709A-R	TRANSISTOR	1	
Q7703,04		MSB709	TRANSISTOR	2	
Q7705		MSD601	TRANSISTOR	1	
Q7711		MSD601	TRANSISTOR	1	
Q7717		MSD601	TRANSISTOR	1	
Q7720		MSD601	TRANSISTOR	1	
Q7722		MSD601	TRANSISTOR	1	
Q7723		MSB709	TRANSISTOR	1	
QR360		UN511E	TRANSISTOR-RESISTOR	1	
QR361		UN5213	TRANSISTOR-RESISTOR	1	
QR806		UN5113	TRANSISTOR-RESISTOR	1	
QR807		UN5213	TRANSISTOR-RESISTOR	1	
QR1001,02		MUN2113	TRANSISTOR-RESISTOR	2	
QR1101		UN2114	TRANSISTOR-RESISTOR	1	
QR1102,03		MUN2213	TRANSISTOR-RESISTOR	2	
QR1104		MUN2212	TRANSISTOR-RESISTOR	1	
QR1105,06		MUN2213	TRANSISTOR-RESISTOR	2	
QR2002		UN2114	TRANSISTOR-RESISTOR	1	
QR2003		FMG8	TRANSISTOR-RESISTOR	1	
QR2007		IMD8	TRANSISTOR-RESISTOR	1	[SUPPLIED FROM MBV]
QR2008,09		MUN2213	TRANSISTOR-RESISTOR	2	
QR2014		MUN2213	TRANSISTOR-RESISTOR	1	
QR3001		MUN2111	TRANSISTOR-RESISTOR	1	
QR3002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR3007		MUN2212	TRANSISTOR-RESISTOR	1	
QR3008		MUN2213	TRANSISTOR-RESISTOR	1	
QR4007		MUN2213	TRANSISTOR-RESISTOR	1	
QR6001		XN1211	TRANSISTOR-RESISTOR	1	
QR6003		MUN2211	TRANSISTOR-RESISTOR	1	
QR7601		MUN2213	TRANSISTOR-RESISTOR	1	
QR7707		UN2216	TRANSISTOR-RESISTOR	1	
QR7710		UN2216	TRANSISTOR-RESISTOR	1	
QR7716		UN2215	TRANSISTOR-RESISTOR	1	
QR7719		MUN2113	TRANSISTOR-RESISTOR	1	
R305,06		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R307		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R308,09		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R310		ERJ6GEYK125	M.RESISTOR CH 1/10W 1.2M	1	
R311		ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R319		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R320		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R321		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R322		ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R325		ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R328		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R329		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R331,32		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R333		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R334,35		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R337		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R338		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R360		ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R361		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R362,63		ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R364,65		ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R367		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R369		ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R371		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R372		ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R373		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R383		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R392		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R393		ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R394		ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R0702		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R0703		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R0704		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R0713		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0721		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0723		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0724		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0725		ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R0726		ERJ3GEYG112	M.RESISTOR CH 1/16W 1.1K	1	
R0727		ERJ3GEYG821	M.RESISTOR CH 1/16W 820	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R801		ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R802		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R805		ERJ3GEYJ163	M.RESISTOR CH 1/16W 16K	1	
R809		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R811		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R826		ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R827		ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R835		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R836		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R837		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R839		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R840		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R841		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R843		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R853		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R855		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R856		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1001		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1004		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R1005		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1006		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R1007		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1008		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1009,10		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R1102,03		ERDS1TJ183	C.RESISTOR 1/2W 18K	2	[SUPPLIED FROM MBV]
R1104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R1107		ERJ6GMYJ164	M.RESISTOR CH 1/10W 160K	1	
R1108		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R1109		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R1110		ERJ6GMYJ362	M.RESISTOR CH 1/10W 3.6K	1	
R1111		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1112		ERJ8GEYJ304	M.RESISTOR CH 1/8W 300K	1	[SUPPLIED FROM MBV]
R1113		ERJ8GEYJ434	M.RESISTOR CH 1/8W 430K	1	[SUPPLIED FROM MBV]
R1114		ERX12SJR51	M.RESISTOR 1/2W 0.51	1	[SUPPLIED FROM MBV]
R1115		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1116		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R1117		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1118		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R1119		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1120		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1122		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1125		ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1	
R1126		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1127		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1128		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R1129		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1130		ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1	
R1134		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1135		ERJ8GEYJ274	M.RESISTOR CH 1/8W 270K	1	
R1136		ERJ8GEYJ394	M.RESISTOR CH 1/8W 390K	1	[SUPPLIED FROM MBV]
R2001		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2002		ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R2003		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2004		ERDS2TJ102	C.RESISTOR 1/2W 1K	1	
R2005,06		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2007		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2011		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2013-15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R2017,18		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R2019		ERDS2TJ561	M.RESISTOR CH 1/10W 560	1	
R2025		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2027,28		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2029		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2039		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2041		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2042,43		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2044		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2045		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2046		ERJ6GMYG224	M.RESISTOR CH 1/10W 220K	1	
R2047		ERJ6GMYJ244	M.RESISTOR CH 1/10W 240K	1	
R2048		ERJ6GMYG154	M.RESISTOR CH 1/10W 150K	1	
R2049		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2050		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2051		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2052		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053,54		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R2059		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2060,61		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R2062		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2063,64		ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R2065		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2066		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3006		ERDS2TJ471	C.RESISTOR 1/2W 470	1	
R3011		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3012		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3013		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3014		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3022		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3023,24		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3025		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3026		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3027		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3030		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3034		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3035		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3038,39		ERDS2TJ102	C.RESISTOR 1/4W 1K	2	
R3042		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4004,05		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	2	
R4007		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4013		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4014		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4027		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R4028		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4029		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4030		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4031		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R4032		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4033		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4034		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4035		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4036		ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R4037		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4038		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R4039		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4040		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4042		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4043		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4044		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4046		ERJ6GMYJ752	M.RESISTOR CH 1/10W 7.5K	1	
R4047		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4049		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4050,51		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R4052		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4053		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4054		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6001		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6014,15		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6020		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-29		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6030		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032,33		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6034,35		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6039,40		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6042		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7601		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7602,03		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R7604		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605-09		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	5	
R7610		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7611		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7612		ERG1SJ681	M.RESISTOR 1W 680	1	
R7614		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7615		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7701		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7705		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7707		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7708		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7709		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R7711		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7712,13		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
R7723		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7725		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7727		ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R7729		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7730		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R7734		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7736		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7737,38		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R7741		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7742		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R7743		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7745		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7748		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7750		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7751		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7753		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7754		ERJ6GEYJ203	M.RESISTOR CH 1/10W 20K	1	
R7755		ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
R7756		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7757		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R7758		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7761		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7765		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7768		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7770		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7772		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7774		EXBF9E103J	COMBI.R-R 10K	1	
R7779		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7781-83		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R7784,85		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7787-89		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	3	
R7790		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R7791		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7794		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7795		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7796		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7797		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7798		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7799		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC072A	TRANSFORMER	1	
T0711		EQS5EC032A	TRANSFORMER	1	
T1101		VLT0740	TRANSFORMER	1	[SUPPLIED FROM MBV]
					<!>
VR301		EVMEASA00B13	V.RESISTOR	1	
VR302		EVMEASA00B14	V.RESISTOR	1	
VR303,04		EVMEASA00B53	V.RESISTOR	2	
VR305,06		EVMEASA00B14	V.RESISTOR	2	
VR0701		EVNCBAA00B24	V.RESISTOR	1	
VR2001		EVNCYAA03B54	V.RESISTOR	1	
VR3012,13		EVNCYAA03B52	V.RESISTOR	2	
X0701		VLF1178	CRYSTAL OSCILLATOR	1	[SUPPLIED FROM MBV]
X0702		EFCT5R5MS5	CRYSTAL OSCILLATOR	1	
X0703		EFCWS2F11A	CRYSTAL OSCILLATOR	1	
X0704		VLF1138	CRYSTAL OSCILLATOR	1	[SUPPLIED FROM MBV]
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X6001		VSX0609	CRYSTAL OSCILLATOR	1	
X7701		VSX0583	CRYSTAL OSCILLATOR	1	
X7702		VSX0353	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
		VMZ2212	CAPACITOR COVER	3	<!>
		VSC4141	SW SHIELD COVER	1	
		VWJ0867	FLAT CARD CABLE	1	(P501-P3002)
		VWJ32C9160BB	FLAT CARD CABLE	1	(P6001-P7501)
		ENG47210G	TUNER	1	[SUPPLIED FROM MBV]
					<!>
		VMX2402	WASHER	1	[SUPPLIED FROM MBV]
		VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU. C.B.A.
		EYF52BC	FUSE HOLDER	2	<!>
		VMD1926	SENSOR LED HOLDER	2	FOR D6001
		VMD1927	PHOTO TR. HOLDER	2	FOR Q6002
	■	VEP06976C	MAIN C.B.A.		[SUPPLIED FROM MBV]
					<!>(RTL)NV-SD400B
C301		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C302		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C303,04		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C305,06		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	2	
C308		ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C309		ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C310		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C311		ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C312		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C313		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C314		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C315		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C316		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C317		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C318		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C319		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C320		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C321		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C322		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C323		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C325		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C326		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C327		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C328		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C329		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C330		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C331		ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C332		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C333		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C334		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C336		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C337		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C338,39		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C340		ECUX1E223ZFV	C.CAPACITOR CH 25V 0.022U	1	
C341		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C342		ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C360		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C361		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C362		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C363		ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C364		ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C365		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C381		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C382,83		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0701-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0705		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C0706		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710		ECUM1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	E.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717		ECUM1H270JPV	C.CAPACITOR CH 50V 27P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0721,22		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C0723		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0724		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0726		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0729		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0732		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C801-04		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	4	
C806		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C808		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C813		ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C814		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C815		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C839		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C840		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C841		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C842		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C843		ECUX1E223ZFV	C.CAPACITOR CH 25V 0.022U	1	
C844		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C845		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C846		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C847		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C848		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C849		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C850		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C851		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C853		ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C854		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C856		ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C857		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C858		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C859		ECEA1HKAR33	E.CAPACITOR 50V 0.33	1	
C860		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C861		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C862		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C868,69		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C893		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C1004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C1006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1009		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C1010		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1012		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1013		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C1101		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1104		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1106		ECQE6104KF	P.CAPACITOR	1	
C1107		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1110,11		ECQU2A104MN	P.CAPACITOR	2	<!>
C1112		ECEC2GG330	E.CAPACITOR 400V 33U	1	
C1113		ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1114		ECCD3A470KGE	C.CAPACITOR 1KV 47P	1	
C1115		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116		ECEA1HGE470	E.CAPACITOR 50V 47U	1	
C1117		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C1118		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1120		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C1121		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C1131		EEUFA1E331B	E.CAPACITOR 25V 330P	1	
C1132		ECEA1DFZ331	E.CAPACITOR 20V 330U	1	
C1133		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1134		EEUFA1A391B	E.CAPACITOR 10V 390P	1	
C1135		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1136		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1137		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1138		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1140		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C1141		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1142		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1143		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1144,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C1147		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1148		ECQV1H124JM	P.CAPACITOR 50V 0.12U	1	[SUPPLIED FROM MBV]
C1149		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1150		ECA1CM101	E.CAPACITOR 16V 100U	1	
C1151		ECA1CM470	E.CAPACITOR 16V 47U	1	
C1153		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C2013		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022		ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2024		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26		ECUM1C105ZFN	E.CAPACITOR 16V 1U	2	
C2029,30		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2033		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C2040		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51		ECUM1C105ZFN	C.CAPACITOR CH 50V 2200P	3	
C2052		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2053-55		ECUM1C105ZFN	C.CAPACITOR CH 50V 2200P	3	
C3005		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3008		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1C105ZFN	C.CAPACITOR CH 50V 1U	1	
C3015		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3018		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3021		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3027		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3028		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3042,43		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C4008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4015		ECUM1H182JCN	C.CAPACITOR CH 50V 1800P	1	
C4016		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4017		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4018		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4019		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4020		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4021		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4022		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4023		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4024		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4026		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4028		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C4030		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4031		ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C4032		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C4033		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4040		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4041		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4042		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4043		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C4046		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007,08		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C7601,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7603		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7604		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7605		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7606		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7607		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7609		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7610,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7612		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7614		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7615		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7701		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C7702		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7703		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7704,05		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7706		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7707-10		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C7712		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7714		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7720		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7722		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7727		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7729		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7731		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7732		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7734		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7738		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7740,41		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7742		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7745		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7746,47		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7748		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7749		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C7750		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7751		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7753		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7756		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7758		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7761		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7762		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7763,64		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7765		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7766,67		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7768		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7769		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7773		ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7775		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7777		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
D381		MA141K	DIODE	1	
D382		MA143	DIODE	1	
D383		MA141K	DIODE	1	
D1004		MA4051-L	DIODE	1	
D1005		1SS355	DIODE	1	
D1006		MA4051-L	DIODE	1	
D1007		1SS355	DIODE	1	
D1102		ERA15-08	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105-07		ERA15-08	DIODE	3	<!>
D1108		RD10OE	DIODE	1	[SUPPLIED FROM MBV]
D1109,10		ERA15-08	DIODE	2	
D1111		MA4120-M	DIODE	1	
D1121		RL2Z	DIODE	1	
D1122		11EQS04	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D1127		1SS355	DIODE	1	
D1129		MA4043-L	DIODE	1	[SUPPLIED FROM MBV]
D1130		1SS254	DIODE	1	
D1132		1SS355	DIODE	1	
D2003-05		1SS254	DIODE	3	
D2007		MA151WA	DIODE	1	
D3001		1SS254	DIODE	1	
D3010		MA151K	DIODE	1	
D3011		1SS355	DIODE	1	
D4005		1SS254	DIODE	1	
D4007		1SS254	DIODE	1	
D6001		LN59L.VT	LED	1	
D6002,03		1SS254	DIODE	2	
D6007		MA4075-L	DIODE	1	
D7601		MA4300M	DIODE	1	
D7605		1SS254	DIODE	1	
D7701		MA151WA	DIODE	1	
D7704		1SS254	DIODE	1	
DL802		EFDBR124A53T	DELAY	1	
DL7701		VLD0275	DELAY	1	[SUPPLIED FROM MBV]
F1101		XBA2C16TH15	FUSE	1	<!>
IC301		MSM7403MS	IC	1	
IC302		TDA9715H/A	IC	1	[SUPPLIED FROM MBV]
IC0701		LA7576	IC	1	
IC1001		HA17431PA	IC	1	
IC1101		TDA4605-3	IC	1	[SUPPLIED FROM MBV]

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
					<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC4002		LA7285	IC	1	
IC6001		MN67434VRTA	IC	1	[SUPPLIED FROM MBV]
IC6002,03		ON1387	IC	2	
IC7701		M27C512MBAA	IC	1	[SUPPLIED FROM MBV]
IC7702		MC74HCT573AW	IC	1	[SUPPLIED FROM MBV]
IC7703		M52055FP	IC	1	
IC7704		ST24C08C	IC	1	[SUPPLIED FROM MBV]
IC7705		TDA8501	IC	1	[SUPPLIED FROM MBV]
IC7706		P80C528FBP	IC	1	[SUPPLIED FROM MBV]
IC7707		MC74HC164D	IC	1	[SUPPLIED FROM MBV]
IC7708		SAA5281PM3	IC	1	[SUPPLIED FROM MBV]
IC7709		MC74HC161AD	IC	1	[SUPPLIED FROM MBV]
K301		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0702		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0703		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0706		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K801		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K802		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K805		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K806		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K807		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K851		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K2001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3004		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3011		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3012		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4008		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4022		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7601		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7604		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7701		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7705		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7709		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7714		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L301		ELESE330KA	COIL 33UH	1	
L302,03		ELESE390KA	COIL 39UH	2	
L304		ELESE101KA	COIL 100UH	1	
L306		ELESE121KA	COIL 120UH	1	
L307		ELESE101KA	COIL 100UH	1	
L308		VLQEL05S390J	COIL 39UH	1	
L0701		ELJNAR10MF	COIL H	1	
L0702		VLQ0163JR12	COIL H	1	[SUPPLIED FROM MBV]
L0706		VLQEL05S8R2K	COIL H	1	
L0707		ELJFA100KB	COIL	1	
L802		ELESE101KA	COIL 100UH	1	
L803		ELESE270KA	COIL 27UH	1	
L805		VLQEL05S150K	COIL	1	
L808		ELESE6R8JA	COIL 6.8UH	1	
L809-11		ELESE101KA	COIL 100UH	3	
L812		VLP0125	INDUCTOR	1	
L1107,08		ELF18D290A2	COIL	2	<!>
L1109		VLP0074	INDUCTOR	1	
L1110		VLP0085	INDUCTOR	1	
L1112		VLP0125	INDUCTOR	1	
L1121		VLQ0611K220	COIL 22UH	1	
L1122		ELELN220KA	COIL 22UH	1	
L1123,24		ELESE101KA	COIL 100UH	2	
L3001		VLQ0599J3R3	COIL 3.3UH	1	
L3003		VLQ0599J6R8	COIL 6.8UH	1	
L3004		VLQ0599J120	COIL 120UH	1	
L3006		VLQ0599J101	COIL 100UH	1	
L3007		VLQ0599J680	COIL 68UH	1	
L3009		VLQ0599J680	COIL 68UH	1	
L3011		VLP0074	INDUCTOR	1	
L4001		VLQ0636	COIL H	1	
L7602		VLQ0599J1R0	COIL 1UH	1	
L7603-05		VLQ0599J680	COIL 68UH	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L7607,08		VLQ0599J680	COIL 68UH	2	
L7701		ELESE100KA	COIL 10UH	1	
L7702		ELESE3R3KA	COIL 3.3UH	1	
L7704		ELESE100KA	COIL 10UH	1	
L7705,06		ELESE101KA	COIL 100UH	2	
P1101		VJS3306	AC INLET	1	<!>
P2001		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P3002		VJS3537A014G	CONNECTOR (FEMALE) 14P	1	
P6001		VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P6004		VJS3317A004	CONNECTOR (FEMALE) 4P	1	
PK0701		VJR0816E010W	CONNECTOR 10P	1	
PP0701		VJP3589E004B	CONNECTOR (MALE) 4P	1	
PP2001		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP2002		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP3901		VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3902		VJP3042A018W	CONNECTOR (MALE) 18P	1	
PP6005		VJP3042A003W	CONNECTOR (MALE) 3P	1	
PP7701		VJP3043A010W	CONNECTOR (MALE) 10P	1	
PP7702		VJP3043A009W	CONNECTOR (MALE) 9P	1	
PS301		VJR0819	CONNECTOR	1	[SUPPLIED FROM MBV]
PS7701		VJS3043B009W	CONNECTOR (FEMALE) 9P	1	
PS7702		VJS3043B010W	CONNECTOR (FEMALE) 10P	1	
Q301		2SC3930	TRANSISTOR	1	
Q360		2SD1819A	TRANSISTOR	1	
Q361		2SB1218A	TRANSISTOR	1	
Q362		2SB1218A-R	TRANSISTOR	1	
Q0701		MSD601-S	TRANSISTOR	1	
Q804		2SC3930	TRANSISTOR	1	
Q1001		2SD601A	TRANSISTOR	1	
Q1002-04		2SD1996-S	TRANSISTOR	3	
Q1005		2SD602A	TRANSISTOR	1	
Q1101		STP3N60FI-M	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q1102		2SD601A	TRANSISTOR	1	
Q1104		2SB1321A	TRANSISTOR	1	
Q1105		2SD601A	TRANSISTOR	1	
Q1106		2SD25440PQA	TRANSISTOR	1	
Q1107		MOC8104FR2	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q1111		MOC8104FR2	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q3002		MSB710	TRANSISTOR	1	
Q3003		2SB709A	TRANSISTOR	1	
Q3004		MSD601	TRANSISTOR	1	
Q3005		MSC2295	TRANSISTOR	1	
Q3010		MSB709-R	TRANSISTOR	1	
Q4001		2SD601A-R	TRANSISTOR	1	
Q6001		MSB709	TRANSISTOR	1	
Q6002		PN205L-NC.VT	PHOTO TRANSISTOR	1	
Q7601		2SB709A-R	TRANSISTOR	1	
Q7703,04		MSB709	TRANSISTOR	2	
Q7705		MSD601	TRANSISTOR	1	
Q7711		MSD601	TRANSISTOR	1	
Q7717		MSD601	TRANSISTOR	1	
Q7720		MSD601	TRANSISTOR	1	
Q7723		MSB709	TRANSISTOR	1	
QR360		UN511E	TRANSISTOR-RESISTOR	1	
QR361		UN5213	TRANSISTOR-RESISTOR	1	
QR806		UN5113	TRANSISTOR-RESISTOR	1	
QR807		UN5213	TRANSISTOR-RESISTOR	1	
QR1001,02		MUN2113	TRANSISTOR-RESISTOR	2	
QR1101		UN2114	TRANSISTOR-RESISTOR	1	
QR1102,03		MUN2213	TRANSISTOR-RESISTOR	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR1104		MUN2212	TRANSISTOR-RESISTOR	1	
QR1105,06		MUN2213	TRANSISTOR-RESISTOR	2	
QR2002		UN2114	TRANSISTOR-RESISTOR	1	
QR2003		FMG8	TRANSISTOR-RESISTOR	1	
QR2007		IMD8	TRANSISTOR-RESISTOR	1	[SUPPLIED FROM MBV]
QR2008,09		MUN2213	TRANSISTOR-RESISTOR	2	
QR2014		MUN2213	TRANSISTOR-RESISTOR	1	
QR3001		MUN2111	TRANSISTOR-RESISTOR	1	
QR3002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR3007		MUN2212	TRANSISTOR-RESISTOR	1	
QR3008		MUN2213	TRANSISTOR-RESISTOR	1	
QR4007		MUN2213	TRANSISTOR-RESISTOR	1	
QR6001		XN1211	TRANSISTOR-RESISTOR	1	
QR6003		MUN2211	TRANSISTOR-RESISTOR	1	
QR7601		MUN2213	TRANSISTOR-RESISTOR	1	
QR7707		UN2216	TRANSISTOR-RESISTOR	1	
QR7710		UN2216	TRANSISTOR-RESISTOR	1	
QR7716		UN2215	TRANSISTOR-RESISTOR	1	
R305,06		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R307		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R308,09		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R310		ERJ6GEYK125	M.RESISTOR CH 1/10W 1.2M	1	
R311		ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R319		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R320		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R321		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R322		ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R325		ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R328		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R329		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R331,32		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R333		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R334,35		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R337		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R338		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R360		ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R361		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R362,63		ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R364,65		ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R367		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R369		ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R371		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R372		ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R373		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R383		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R392		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R393		ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R394		ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R0702		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R0703		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0704		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R0713		ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716		VRE0040E151	M.RESISTOR CH 1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0721		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0723		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0724		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0725		ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R0726		ERJ3GEYG681	M.RESISTOR CH 1/16W 680	1	
R0727		ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R801		ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R802		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R805		ERJ3GEYJ163	M.RESISTOR CH 1/16W 16K	1	
R809		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R811		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R826		ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R827		ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R835		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R836		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R837		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R839		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R840		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R841		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R843		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R853		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R855		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R856		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1001		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1004		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R1005		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1006		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R1007		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1008		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1009,10		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R1102,03		ERDS1TJ183	C.RESISTOR 1/2W 18K	2	[SUPPLIED FROM MBV]
R1104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R1107		ERJ6GMYJ164	M.RESISTOR CH 1/10W 160K	1	
R1108		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R1109		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R1110		ERJ6GMYJ362	M.RESISTOR CH 1/10W 3.6K	1	
R1111		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1112		ERJ8GEYJ304	M.RESISTOR CH 1/8W 300K	1	[SUPPLIED FROM MBV]
R1113		ERJ8GEYJ434	M.RESISTOR CH 1/8W 430K	1	[SUPPLIED FROM MBV]
R1114		ERX12SJR51	M.RESISTOR 1/2W 0.51	1	[SUPPLIED FROM MBV]
R1115		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1116		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R1117		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1118		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R1119		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1120		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1122		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1125		ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1	
R1126		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1127		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1128		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R1129		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1130		ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1	
R1134		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1135		ERJ8GEYJ274	M.RESISTOR CH 1/8W 270K	1	
R1136		ERJ8GEYJ394	M.RESISTOR CH 1/8W 390K	1	[SUPPLIED FROM MBV]
R2001		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2002		ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R2003		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2004		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2005,06		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2007		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2011		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2013-15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R2017,18		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R2019		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2025		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2027,28		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2029		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2039		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2041		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2042,43		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2044		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2045		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2046		ERJ6GMYG224	M.RESISTOR CH 1/10W 220K	1	
R2047		ERJ6GMYJ244	M.RESISTOR CH 1/10W 240K	1	
R2048		ERJ6GMYG154	M.RESISTOR CH 1/10W 150K	1	
R2049		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2050		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2051		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2052		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053,54		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R2059		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2060,61		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R2062		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2063,64		ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R2065		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2066		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3006		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3011		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3012		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3013		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3014		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3022		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3023,24		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3025		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3026		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3027		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3030		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3034		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3035		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3038,39		ERDS2TJ102	C.RESITOR 1/4W 1K	2	
R3042		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4004,05		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	2	
R4007		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4013		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4014		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4027		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R4028		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4029		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4030		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4031		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R4032		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4033		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4034		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4035		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4036		ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R4037		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4038		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R4039		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4040		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4042		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4043		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4044		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4046		ERJ6GMYJ752	M.RESISTOR CH 1/10W 7.5K	1	
R4047		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4049		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4050,51		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R4052		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4053		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4054		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6001		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6014,15		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6020		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-29		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6030		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032,33		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6034,35		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R6039,40		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6042		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7601		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7602,03		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R7604		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605-09		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	5	
R7610		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7611		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7612		ERG1SJ681	M.RESISTOR 1W 680	1	
R7614		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7615		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7701		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7705		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7707		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7708		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7709		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7711		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7712,13		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	2	
R7723		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7725		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7727		ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R7729		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7730		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R7734		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7736		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7737,38		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R7741		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7742		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R7743		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7745		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7748		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7750		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7751		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7753		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7754		ERJ6GEYJ203	M.RESISTOR CH 1/10W 20K	1	
R7755		ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
R7756		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7757		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R7758		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7761		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7765		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7768		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7770		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7772		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7774		EXBF9E103J	COMBI.R-R 10K	1	
R7779		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7781-83		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R7784,85		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7787-89		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	3	
R7790		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R7791		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7798		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC072A	TRANSFORMER	1	
T0711		EQS5EC032A	TRANSFORMER	1	
T1101		VLT0740	TRANSFORMER	1	[SUPPLIED FROM MBV]
					<!>
VR301		EVMEASA00B13	V.RESISTOR	1	
VR302		EVMEASA00B14	V.RESISTOR	1	
VR303,04		EVMEASA00B53	V.RESISTOR	2	
VR305,06		EVMEASA00B14	V.RESISTOR	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR0701		EVNCBAA00B24	V.RESISTOR	1	
VR2001		EVNCYAA03B54	V.RESISTOR	1	
VR3012,13		EVNCYAA03B52	V.RESISTOR	2	
X0701		VLF1180	CRYSTAL OSCILLATOR	1	[SUPPLIED FROM MBV]
X0702		EFCS6ROMS5	CRYSTAL OSCILLATOR	1	
X0703		EFCWS2F14T	CRYSTAL OSCILLATOR	1	
X0704		VLF1166	CRYSTAL OSCILLATOR	1	[SUPPLIED FROM MBV]
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X6001		VSX0609	CRYSTAL OSCILLATOR	1	
X7701		VSX0583	CRYSTAL OSCILLATOR	1	
X7702		VSX0353	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
		VMZ2212	CAPACITOR COVER	3	<!>
		VSC4141	SW SHIELD COVER	1	
		VWJ0867	FLAT CARD CABLE	1	(P501-P3002)
		VWJ32C9160BB	FLAT CARD CABLE	1	(P6001-P7501)
		ENG47211G	TUNER	1	[SUPPLIED FROM MBV]
					<!>
		VMX2402	WASHER	1	[SUPPLIED FROM MBV]
		VMP4471	TV DEMODULATOR ANGLE	1	FOR TV DEMODU. C.B.A
		EYF52BC	FUSE HOLDER	2	<!>
		VMD1926	SENSOR LED HOLDER	2	FOR D6001
		VMD1927	PHOTO TR. HOLDER	2	FOR Q6002
	■	VEP06976D	MAIN C.B.A.		SUPPLIED FROM MBV
					<!>(RTL)NV-SD400BI
C301		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C302		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C303,04		ECUX1C1042FV	C.CAPACITOR CH 16V 0.1U	2	
C305,06		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	2	
C308		ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C309		ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C310		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C311		ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C312		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C313		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C314		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C315		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C316		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C317		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C318		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C319		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C320		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C321		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C322		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C323		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C325		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C326		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C327		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C328		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
C329		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C330		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C331		ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C332		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C333		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C334		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C336		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C337		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C338,39		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C340		ECUX1E223ZFV	C.CAPACITOR CH 25V 0.022U	1	
C341		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C342		ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C360		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C361		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C362		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C363		ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C364		ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C365		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C381		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C382,83		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0701-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C0704		ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C0705		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C0706		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0707,08		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C0709		ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C0710		ECUM1H470JPV	C.CAPACITOR CH 50V 47P	1	
C0711		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0712		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0714		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0715		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C0716		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0717		ECUM1H270JPV	C.CAPACITOR CH 50V 27P	1	
C0718		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C0719		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C0720		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0721,22		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C0723		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C0724		ECQB1H473JF	P.CAPACITOR 50V 0.047U	1	
C0726		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C0729		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C0732		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C801-04		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	4	
C806		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C808		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C813		ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C814		ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C815		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C839		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C840		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C841		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C842		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C843		ECUX1E223ZFV	C.CAPACITOR CH 25V 0.022U	1	
C844		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C845		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C846		ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C847		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C848		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C849		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C850		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C851		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C853		ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C854		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C856		ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C857		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C858		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C859		ECEA1HKAR33	E.CAPACITOR 50V 0.33	1	
C860		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	1	
C861		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C862		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C868,69		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C893		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C1004		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1005		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C1006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1007		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1008		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1009		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C1010		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1011		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1012		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C1013		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C1101		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1104		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1106		ECQE6104KF	P.CAPACITOR	1	
C1107		ECKMWS102MEH	C.CAPACITOR	1	<!>
C1110,11		ECQU2A104MN	P.CAPACITOR	2	<!>
C1112		ECEC2GG330	E.CAPACITOR 400V 33U	1	
C1113		ECKD2H103PU	C.CAPACITOR 500V 0.01U	1	
C1114		ECCD3A470KGE	C.CAPACITOR 1kV 47P	1	
C1115		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116		ECEA1HGE470	E.CAPACITOR 50V 47U	1	
C1117		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C1118		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C1120		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C1121		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C1131		EEUFA1E331B	E.CAPACITOR 25V 330P	1	
C1132		ECEA1DFZ331	E.CAPACITOR 20V 330U	1	
C1133		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1134		EEUFA1A391B	E.CAPACITOR 10V 390P	1	
C1135		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1136		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1137		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1138		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1139		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1140		ECEA1VFE820	E.CAPACITOR 35V 82U	1	
C1141		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1142		ECKD2H101KB	C.CAPACITOR 500V 100P	1	
C1143		ECEA1AFZ331	E.CAPACITOR 10V 330U	1	
C1144,45		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C1147		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C1148		ECQV1H124JM	P.CAPACITOR 50V 0.12U	1	[SUPPLIED FROM MBV]
C1149		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1150		ECA1CM101	E.CAPACITOR 16V 100U	1	
C1151		ECA1CM470	E.CAPACITOR 16V 47U	1	
C1153		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C2013		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C2022		ECEA1EKS330	E.CAPACITOR 25V 33U	1	
C2023		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2024		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2025,26		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2029,30		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C2031		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C2032		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C2033		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2034		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C2035		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C2037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2038		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2039		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C2040		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C2047		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2049-51		ECUM1C105ZFN	E.CAPACITOR 16V 1U	3	
C2052		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2053-55		ECUM1C105ZFN	E.CAPACITOR 16V 1U	3	
C3005		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3006		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3007		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3008		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3009		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3010		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3015		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3018		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3021		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3027		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3028		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3029		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3031		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3032		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3033		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3042,43		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C4008		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C4010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4015		ECUM1H182JCN	C.CAPACITOR CH 50V 1800P	1	
C4016		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4017		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4018		ECUM1H103KBN	C.CAPACITOR CH 50V 0.01U	1	
C4019		ECEA1HU010	E.CAPACITOR 50V 1U	1	
C4020		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4021		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4022		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C4023		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4024		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4026		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4028		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C4030		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4031		ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C4032		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C4033		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4040		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4041		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4042		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4043		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C4046		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007,08		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	C.CAPACITOR CH 50V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C7601,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7603		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7604		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7605		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7606		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7607		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7609		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7610,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7612		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7614		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7615		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7701		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C7702		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7703		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7704,05		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7706		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7707-10		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C7712		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7714		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7720		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7722		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7727		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7729		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7731		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7732		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7734		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7738		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7740,41		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7742		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7745		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7746,47		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7748		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7749		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C7750		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7751		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7753		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7756		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7758		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7761		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7762		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7763,64		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7765		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7766,67		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7768		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7769		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7773		ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7775		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7777		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
D381		MA141K	DIODE	1	
D382		MA143	DIODE	1	
D383		MA141K	DIODE	1	
D1004		MA4051-L	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D1005		1SS355	DIODE	1	
D1006		MA4051-L	DIODE	1	
D1007		1SS355	DIODE	1	
D1102		ERA15-08	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105-07		ERA15-08	DIODE	3	<!>
D1108		RD100E	DIODE	1	[SUPPLIED FROM MBV]
D1109,10		ERA15-08	DIODE	2	
D1111		MA4120-M	DIODE	1	
D1121		RL2Z	DIODE	1	
D1122		11EQS04	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D1127		1SS355	DIODE	1	
D1129		MA4043-L	DIODE	1	[SUPPLIED FROM MBV]
D1130		1SS254	DIODE	1	
D1132		1SS355	DIODE	1	
D2003-05		1SS254	DIODE	3	
D2007		MA151WA	DIODE	1	
D3001		1SS254	DIODE	1	
D3010		MA151K	DIODE	1	
D3011		1SS355	DIODE	1	
D4005		1SS254	DIODE	1	
D4007		1SS254	DIODE	1	
D6001		LN59L.VT	LED	1	
D6002,03		1SS254	DIODE	2	
D6007		MA4075-L	DIODE	1	
D7601		MA4300M	DIODE	1	
D7605		1SS254	DIODE	1	
D7701		MA151WA	DIODE	1	
D7704		1SS254	DIODE	1	
DL802		EFDBR124A53T	DELAY	1	
DL7701		VLD0275	DELAY	1	[SUPPLIED FROM MBV]
F1101		XBA2C16TH15	FUSE	1	<!>
IC301		MSM7403MS	IC	1	
IC302		TDA9715H/A	IC	1	[SUPPLIED FROM MBV]
IC0701		LA7576	IC	1	
IC1001		HA17431PA	IC	1	
IC1101		TDA4605-3	IC	1	[SUPPLIED FROM MBV]
					<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC4002		LA7285	IC	1	
IC6001		MN67434VRTA	IC	1	[SUPPLIED FROM MBV]
IC6002,03		ON1387	IC	2	
IC7701		M27C512MBAA	IC	1	[SUPPLIED FROM MBV]
IC7702		MC74HCT573AW	IC	1	[SUPPLIED FROM MBV]
IC7703		M52055FP	IC	1	
IC7704		ST24C08C	IC	1	[SUPPLIED FROM MBV]
IC7705		TDA8501	IC	1	[SUPPLIED FROM MBV]
IC7706		P80C528FBP	IC	1	[SUPPLIED FROM MBV]
IC7707		MC74HC164D	IC	1	[SUPPLIED FROM MBV]
IC7708		SAA5281PM3	IC	1	[SUPPLIED FROM MBV]
IC7709		MC74HC161AD	IC	1	[SUPPLIED FROM MBV]
K301		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0702		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0703		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0706		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K801		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K802		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K805		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K806		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4026		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4027		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4028		ECEA1EKA4R7	E.CAPACITOR 25V 4.7U	1	
C4030		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4031		ECUM1H682KBN	C.CAPACITOR CH 50V 6800P	1	
C4032		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C4033		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4040		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4041		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4042		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4043		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C4046		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C6001		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6003		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C6006		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6007,08		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	2	
C6010		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6011		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECUM1C105ZFN	C.CAPACITOR CH 50V 1U	1	
C6015,16		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C7601,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7603		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7604		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7605		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7606		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C7607		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7609		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7610,11		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7612		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7614		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7615		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C7701		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C7702		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C7703		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7704,05		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7706		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C7707-10		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C7712		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7714		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7720		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7722		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7727		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7729		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7731		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7732		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7734		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7738		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7740,41		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	2	
C7742		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7745		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7746,47		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7748		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C7749		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C7750		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C7751		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7753		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7756		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7758		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7761		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7762		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7763,64		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7765		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7766,67		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7768		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7769		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7773		ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C7775		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7777		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
D381		MA141K	DIODE	1	
D382		MA143	DIODE	1	
D383		MA141K	DIODE	1	
D1004		MA4051-L	DIODE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D1005		1SS355	DIODE	1	
D1006		MA4051-L	DIODE	1	
D1007		1SS355	DIODE	1	
D1102		ERA15-08	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105-07		ERA15-08	DIODE	3	<!>
D1108		RD100E	DIODE	1	[SUPPLIED FROM MBV]
D1109,10		ERA15-08	DIODE	2	
D1111		MA4120-M	DIODE	1	
D1121		RL22	DIODE	1	
D1122		11EQS04	DIODE	1	
D1123		ERA22-02	DIODE	1	
D1124		MA185	DIODE	1	
D1125		11EQS04	DIODE	1	
D1126		MA4047M	DIODE	1	
D1127		1SS355	DIODE	1	
D1129		MA4043-L	DIODE	1	[SUPPLIED FROM MBV]
D1130		1SS254	DIODE	1	
D1132		1SS355	DIODE	1	
D2003-05		1SS254	DIODE	3	
D2007		MA151WA	DIODE	1	
D3001		1SS254	DIODE	1	
D3010		MA151K	DIODE	1	
D3011		1SS355	DIODE	1	
D4005		1SS254	DIODE	1	
D4007		1SS254	DIODE	1	
D6001		LN59L.VT	LED	1	
D6002,03		1SS254	DIODE	2	
D6007		MA4075-L	DIODE	1	
D7601		MA4300M	DIODE	1	
D7605		1SS254	DIODE	1	
D7701		MA151WA	DIODE	1	
D7704		1SS254	DIODE	1	
DL802		EFDBR124A53T	DELAY	1	
DL7701		VLD0275	DELAY	1	[SUPPLIED FROM MBV]
F1101		XBA2C16TH15	FUSE	1	<!>
IC301		MSM7403MS	IC	1	
IC302		TDA9715H/A	IC	1	[SUPPLIED FROM MBV]
IC0701		LA7576	IC	1	
IC1001		HA17431PA	IC	1	
IC1101		TDA4605-3	IC	1	[SUPPLIED FROM MBV]
					<!>
IC2001		XRA6887-V3	IC	1	
IC2004		LM358PS	IC	1	
IC4002		LA7285	IC	1	
IC6001		MN67434VRTA	IC	1	[SUPPLIED FROM MBV]
IC6002,03		ON1387	IC	2	
IC7701		M27C512MBAA	IC	1	[SUPPLIED FROM MBV]
IC7702		MC74HCT573AW	IC	1	[SUPPLIED FROM MBV]
IC7703		M52055FP	IC	1	
IC7704		ST24C08C	IC	1	[SUPPLIED FROM MBV]
IC7705		TDA8501	IC	1	[SUPPLIED FROM MBV]
IC7706		P80C528FBP	IC	1	[SUPPLIED FROM MBV]
IC7707		MC74HC164D	IC	1	[SUPPLIED FROM MBV]
IC7708		SAA5281FM3	IC	1	[SUPPLIED FROM MBV]
IC7709		MC74HC161AD	IC	1	[SUPPLIED FROM MBV]
K301		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K303		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0702		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0703		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K0706		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K801		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K802		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K805		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K806		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
K807		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
K851		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K2001		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3004		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3011		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K3012		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4008		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4022		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7601		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7604		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7701		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7705		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7709		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K7714		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L301		ELESE330KA	COIL 33UH	1	
L302,03		ELESE390KA	COIL 39UH	2	
L304		ELESE101KA	COIL 100UH	1	
L306		ELESE121KA	COIL 120UH	1	
L307		ELESE101KA	COIL 100UH	1	
L308		VLQEL05S390J	COIL 39UH	1	
L0701		ELJNAR10MF	COIL H	1	
L0702		VLQ0163JR12	COIL H	1	[SUPPLIED FROM MBV]
L0706		VLQEL05S8R2K	COIL H	1	
L0707		ELJFA100KB	COIL	1	
L802		ELESE101KA	COIL 100UH	1	
L803		ELESE270KA	COIL 27UH	1	
L805		VLQEL05S150K	COIL	1	
L808		ELESE6R8JA	COIL 6.8UH	1	
L809-11		ELESE101KA	COIL 100UH	3	
L812		VLP0125	COIL	1	
L1107,08		ELF18D290A2	COIL	2	<!>
L1109		VLP0074	INDUCTOR	1	
L1110		VLP0085	COIL	1	
L1112		VLP0125	COIL	1	
L1121		VLQ0611K220	COIL 22UH	1	
L1122		ELELN220KA	COIL 22UH	1	
L1123,24		ELESE101KA	COIL 100UH	2	
L3001		VLQ0599J3R3	COIL 3.3UH	1	
L3003		VLQ0599J6R8	COIL 6.8UH	1	
L3004		VLQ0599J120	COIL 120UH	1	
L3006		VLQ0599J101	COIL 100UH	1	
L3007		VLQ0599J680	COIL 68UH	1	
L3009		VLQ0599J680	COIL 68UH	1	
L3011		VLP0074	INDUCTOR	1	
L4001		VLQ0636	COIL H	1	
L7602		VLQ0599J1R0	COIL 1UH	1	
L7603-05		VLQ0599J680	COIL 68UH	3	
L7607,08		VLQ0599J680	COIL 68UH	2	
L7701		ELESE100KA	COIL 10UH	1	
L7702		ELESE3R3KA	COIL 3.3UH	1	
L7704		ELESE100KA	COIL 10UH	1	
L7705,06		ELESE101KA	COIL 100UH	2	
P1101		VJS3306	AC INLET	1	<!>
P2001		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P3002		VJS3537A014G	CONNECTOR (FEMALE) 14P	1	
P6001		VJS3537A032G	CONNECTOR (FEMALE) 32P	1	
P6004		VJS3317A004	CONNECTOR (FEMALE) 4P	1	
PK0701		VJR0816E010W	CONNECTOR 10P	1	
PP0701		VJP3589E004B	CONNECTOR (MALE) 4P	1	
PP2001		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP2002		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP3901		VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3902		VJP3042A018W	CONNECTOR (MALE) 18P	1	
PP6005		VJP3042A003W	CONNECTOR (MALE) 3P	1	
PP7701		VJP3043A010W	CONNECTOR (MALE) 10P	1	
PP7702		VJP3043A009W	CONNECTOR (MALE) 9P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
PS301		VJR0819	CONNECTOR	1	[SUPPLIED FROM MBV]
PS7701		VJS3043B009W	CONNECTOR (FEMALE) 9P	1	
PS7702		VJS3043B010W	CONNECTOR (FEMALE) 10P	1	
Q301		2SC3930	TRANSISTOR	1	
Q360		2SD1819A	TRANSISTOR	1	
Q361		2SB1218A	TRANSISTOR	1	
Q362		2SB1218A-R	TRANSISTOR	1	
Q0701		MSD601-S	TRANSISTOR	1	
Q804		2SC3930	TRANSISTOR	1	
Q1001		2SD601A	TRANSISTOR	1	
Q1002-04		2SD1996-S	TRANSISTOR	3	
Q1005		2SD602A	TRANSISTOR	1	
Q1101		STP3N60FI-M	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q1102		2SD601A	TRANSISTOR	1	
Q1104		2SB1321A	TRANSISTOR	1	
Q1105		2SD601A	TRANSISTOR	1	
Q1106		2SD25440PQA	TRANSISTOR	1	
Q1107		MOC8104FR2	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q1111		MOC8104FR2	TRANSISTOR	1	[SUPPLIED FROM MBV]
					<!>
Q3002		MSB710	TRANSISTOR	1	
Q3003		2SB709A	TRANSISTOR	1	
Q3004		MSD601	TRANSISTOR	1	
Q3005		MSC2295	TRANSISTOR	1	
Q3010		MSB709-R	TRANSISTOR	1	
Q4001		2SD601A-R	TRANSISTOR	1	
Q6001		MSB709	TRANSISTOR	1	
Q6002		PN205L-NC.VT	PHOTO TRANSISTOR	1	
Q7601		2SB709A-R	TRANSISTOR	1	
Q7703,04		MSB709	TRANSISTOR	2	
Q7705		MSD601	TRANSISTOR	1	
Q7711		MSD601	TRANSISTOR	1	
Q7717		MSD601	TRANSISTOR	1	
Q7720		MSD601	TRANSISTOR	1	
Q7723		MSB709	TRANSISTOR	1	
QR360		UN511E	TRANSISTOR-RESISTOR	1	
QR361		UN5213	TRANSISTOR-RESISTOR	1	
QR806		UN5113	TRANSISTOR-RESISTOR	1	
QR807		UN5213	TRANSISTOR-RESISTOR	1	
QR1001,02		MUN2113	TRANSISTOR-RESISTOR	2	
QR1101		UN2114	TRANSISTOR-RESISTOR	1	
QR1102,03		MUN2213	TRANSISTOR-RESISTOR	2	
QR1104		MUN2212	TRANSISTOR-RESISTOR	1	
QR1105,06		MUN2213	TRANSISTOR-RESISTOR	2	
QR2002		UN2114	TRANSISTOR-RESISTOR	1	
QR2003		FMG8	TRANSISTOR-RESISTOR	1	
QR2007		IMD8	TRANSISTOR-RESISTOR	1	[SUPPLIED FROM MBV]
QR2008,09		MUN2213	TRANSISTOR-RESISTOR	2	
QR2014		MUN2213	TRANSISTOR-RESISTOR	1	
QR3001		MUN2111	TRANSISTOR-RESISTOR	1	
QR3002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR3007		MUN2212	TRANSISTOR-RESISTOR	1	
QR3008		MUN2213	TRANSISTOR-RESISTOR	1	
QR4007		MUN2213	TRANSISTOR-RESISTOR	1	
QR6001		XN1211	TRANSISTOR-RESISTOR	1	
QR6003		MUN2211	TRANSISTOR-RESISTOR	1	
QR7601		MUN2213	TRANSISTOR-RESISTOR	1	
QR7707		UN2216	TRANSISTOR-RESISTOR	1	
QR7710		UN2216	TRANSISTOR-RESISTOR	1	
QR7716		UN2215	TRANSISTOR-RESISTOR	1	
R305,06		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R307		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R308,09		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R310		ERJ6GEYK125	M.RESISTOR CH 1/10W 1.2M	1	
R311		ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R319		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R320		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R321		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R322		ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R325		ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R328		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R329		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R331,32		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R333		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R334,35		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	2	
R337		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R338		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R360		ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R361		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R362,63		ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
R364,65		ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	2	
R367		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R369		ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R371		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R372		ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R373		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R383		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R392		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R393		ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R394		ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	1	
R0702		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R0703		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0704		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R0705		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R0706,07		ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R0708		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R0709		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R0710		ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1	
R0713		ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R0714		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R0715		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0716		VREOO40E151	M.RESISTOR CH 1/10W 150	1	
R0717		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0718		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0719		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R0720		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R0721		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R0722		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R0723		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R0724		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R0725		ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R0726		ERJ3GEYG681	M.RESISTOR CH 1/16W 680	1	
R0727		ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R0732		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R0783		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R801		ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R802		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R804		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R805		ERJ3GEYJ163	M.RESISTOR CH 1/16W 16K	1	
R809		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R811		ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R826		ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R827		ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R835		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R836		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R837		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R838		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R839		ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R840		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R841		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R843		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R853		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R855		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R856		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R1001		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1003		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1004		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R1005		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R1006		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R1007		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1008		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1009,10		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R1102,03		ERDS1TJ183	C.RESISTOR 1/2W 18K	2	[SUPPLIED FROM MBV]
R1104		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R1107		ERJ6GMYJ164	M.RESISTOR CH 1/10W 160K	1	
R1108		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R1109		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R1110		ERJ6GMYJ362	M.RESISTOR CH 1/10W 3.6K	1	
R1111		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R1112		ERJ8GEYJ304	M.RESISTOR CH 1/8W 300K	1	[SUPPLIED FROM MBV]
R1113		ERJ8GEYJ434	M.RESISTOR CH 1/8W 430K	1	[SUPPLIED FROM MBV]
R1114		ERX12SJR51	M.RESISTOR 1/2W 0.51	1	[SUPPLIED FROM MBV]
R1115		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1116		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R1117		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1118		ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R1119		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1120		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1122		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1125		ERJ6GMYJ220	M.RESISTOR CH 1/10W 22	1	
R1126		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1127		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R1128		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R1129		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R1130		ERDS1TJ472	C.RESISTOR 1/2W 4.7K	1	
R1134		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R1135		ERJ8GEYJ274	M.RESISTOR CH 1/8W 270K	1	
R1136		ERJ8GEYJ394	M.RESISTOR CH 1/8W 390K	1	[SUPPLIED FROM MBV]
R2001		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2002		ERJ6GMYG913	M.RESISTOR CH 1/10W 91K	1	
R2003		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2004		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R2005,06		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2007		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2011		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2013-15		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R2017,18		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R2019		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R2025		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2027,28		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	
R2029		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2035		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2037		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2038		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R2039		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2040		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2041		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R2042,43		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2044		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2045		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R2046		ERJ6GMYG224	M.RESISTOR CH 1/10W 220K	1	
R2047		ERJ6GMYJ244	M.RESISTOR CH 1/10W 240K	1	
R2048		ERJ6GMYG154	M.RESISTOR CH 1/10W 150K	1	
R2049		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R2050		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R2051		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2052		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2053,54		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R2059		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2060,61		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R2062		ERDS2FJ7R5	C.RESISTOR 1/4W 7.5	1	
R2063,64		ERDS2FJ6R8	C.RESISTOR 1/4W 6.8	2	
R2065		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2066		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3006		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3011		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3012		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3013		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3014		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3022		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3023,24		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3025		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3026		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3027		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3028		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3030		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3034		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3035		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3036		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3037		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3038,39		ERDS2TJ102	M.RESISTOR 1/2W 1K	2	
R3042		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R4004,05		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	2	
R4007		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4013		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4014		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4027		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R4028		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4029		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4030		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4031		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R4032		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4033		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4034		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4035		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4036		ERJ6GMYJ513	M.RESISTOR CH 1/10W 51K	1	
R4037		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4038		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R4039		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4040		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4042		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4043		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4044		ERJ6GMYJ474	M.RESISTOR CH 1/10W 470K	1	
R4046		ERJ6GMYJ752	M.RESISTOR CH 1/10W 7.5K	1	
R4047		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4049		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4050,51		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R4052		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4053		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4054		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6001		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6002		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R6003		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6004		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6005-07		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6008		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6009-11		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6013		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R6014,15		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6017		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6018		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6020		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6023		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6024-29		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6030		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6031		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6032,33		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6034,35		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6037		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R6039,40		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6042		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7601		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7602,03		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R7604		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7605-09		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	5	
R7610		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7611		ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R7612		ERG1SJ681	M.RESISTOR 1W 680	1	
R7614		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R7615		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7701		ERDS2TJ103	C.RESISTOR 1/2W 10K	1	
R7705		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7707		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7708		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7709		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7711		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7712,13		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	2	
R7723		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7725		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7727		ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R7729		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7730		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R7734		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7736		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7737,38		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	2	
R7741		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7742		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R7743		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7745		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7748		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7750		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7751		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7753		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7754		ERJ6GEYJ203	M.RESISTOR CH 1/10W 20K	1	
R7755		ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	
R7756		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7757		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R7758		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7761		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7765		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7768		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R7770		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7772		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7774		EXBF9E103J	COMBI.R-R 10K	1	
R7779		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7781-83		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	3	
R7784,85		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7787-89		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	3	
R7790		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R7791		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7798		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
T0703		EQV5EC071A	TRANSFORMER	1	
T0704		EQV5EC072A	TRANSFORMER	1	
T0711		EQS5EC032A	TRANSFORMER	1	
T1101		VLT0740	TRANSFORMER	1	[SUPPLIED FROM MBV]
					<!>
VR301		EVMEASA00B13	V.RESISTOR	1	
VR302		EVMEASA00B14	V.RESISTOR	1	
VR303,04		EVMEASA00B53	V.RESISTOR	2	
VR305,06		EVMEASA00B14	V.RESISTOR	2	
VR0701		EVNCBAA00B24	V.RESISTOR	1	
VR2001		EVNCYAA03B54	V.RESISTOR	1	
VR3012,13		EVNCYAA03B52	V.RESISTOR	2	
X0701		VLF1180	CRYSTAL OSCILLATOR	1	[SUPPLIED FROM MBV]
X0702		EFCS6R0MS5	CRYSTAL OSCILLATOR	1	
X0703		EFCWS2F14T	CRYSTAL OSCILLATOR	1	
X0704		VLF1166	CRYSTAL OSCILLATOR	1	[SUPPLIED FROM MBV]
X801		VSX0162	CRYSTAL OSCILLATOR	1	
X6001		VSX0609	CRYSTAL OSCILLATOR	1	
X7701		VSX0583	CRYSTAL OSCILLATOR	1	
X7702		VSX0353	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
		VMZ2212	CAPACITOR COVER	3	<!>
		VSC4141	SW SHIELD COVER	1	
		VWJ0867	FLAT CARD CABLE	1	(P501-P3002)
		VWJ32C9160BB	FLAT CARD CABLE	1	(P6001-P7501)
		ENG47207G	TUNER	1	[SUPPLIED FROM MBV]
					<!>
		VMX2402	WASHER	1	[SUPPLIED FROM MBV]
		VMP4471	TV DEMODULTOR ANGLE	1	FOR TV DEMODU. C.B.A.
		EYF52BC	FUSE HOLDER	2	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VMD1926	SENSOR LED HOLDER	2	FOR D6001
		VMD1927	PHOTO TR. HOLDER	2	FOR Q6002
	■	VEP03B23A	INPUT/OUTPUT PACK C.B.A.		[SUPPLIED FROM MBV]
					(RTL)NV-SD400EG
C3901		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3902		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3903		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3904		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3905,06		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3909		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3910		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3913		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3914		ECEA0JKA331	E.CAPACITOR 6.3V 330U	1	
C3915		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C4903-08		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	6	
C4911,12		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
D3901		MA4056M	DIODE	1	
D3902		1SS254	DIODE	1	
D3903		MA151K	DIODE	1	
D3907		MA4056M	DIODE	1	
IC3901		MC14053BF	IC	1	
IC3902		MC14052BF	IC	1	
IC3903		MC14051BF	IC	1	
IC3904		BU12101-02	IC	1	[SUPPLIED FROM MBV]
IC4901		MC14052BF	IC	1	
IC4903		NJM4558M	IC	1	
IC4904		MC14052BF	IC	1	
JK3901		VJS1470	21PIN SKIRT JACK	2	
JK3902		VJH0791	I/O JACK PLATE	1	[SUPPLIED FROM MBV]
K3901		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4906		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4908		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4912		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L3901		VLQ0188J101	COIL 100UH	1	
L3902		VLQ0599J101	COIL 100UH	1	
PS3901		VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS3902		VJS3042B018W	CONNECTOR (FEMALE) 18P	1	
Q3901		MSD601	TRANSISTOR	1	
Q3902		MSB709	TRANSISTOR	1	
Q3903		MSD601	TRANSISTOR	1	
Q3904		MSB709	TRANSISTOR	1	
QR3901		MUN2212	TRANSISTOR-RESISTOR	1	
QR3902		UN2216	TRANSISTOR-RESISTOR	1	
QR3903		MUN2111	TRANSISTOR-RESISTOR	1	
QR3904		UN4113	TRANSISTOR-RESISTOR	1	
R3901,02		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3903		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3904		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3905		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3906		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3907		ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3908		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3909		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3910		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3911		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3912		ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3913		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3916		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3917		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3918		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3921		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3922		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3923,24		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R3925,26		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	2	
R3927		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3928		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R4901		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4902		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R4903,04		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	2	
R4909		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4910		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4911		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4920		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4921		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4924		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4926		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4928		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4931		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4933		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4935		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4939		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
SW3901		ESD172311	SWITCH	1	
			MISCELLANEOUS		
		XTV3+8GFZ	SCREW	4	FOR 21PIN SKIRT JACK
	■	VEP03B23C	INPUT/OUTPUT PACK C.B.A.		[SUPPLIED FROM MBV]
					(RTL)MV-SD400B/BI
C3901		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3902		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3903		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3904		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3905,06		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3909		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3910		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3913		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3914		ECEA0JKA331	E.CAPACITOR 6.3V 330U	1	
C3915		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C4903-08		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	6	
C4911,12		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
D3901		MA4056M	DIODE	1	
D3902		1SS254	DIODE	1	
D3903		MA151K	DIODE	1	
D3907		MA4056M	DIODE	1	
IC3901		MC14053BF	IC	1	
IC3902		MC14052BF	IC	1	
IC3903		MC14051BF	IC	1	
IC3904		BU12101-02	IC	1	[SUPPLIED FROM MBV]
IC4901		MC14052BF	IC	1	
IC4903		NJM4558M	IC	1	
IC4904		MC14052BF	IC	1	
K3902		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4906		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4908		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4912		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
JK3901,02		VJS1470	21PIN SKIRT JACK	2	
JK3903		VJH0798	I/O JACK PLATE	1	[SUPPLIED FROM MBV]
L3901		VLQ0188J101	COIL 100UH	1	
L3902		VLQ0599J101	COIL 100UH	1	
PS3901		VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS3902		VJS3042B018W	CONNECTOR (FEMALE) 18P	1	
Q3901		MSD601	TRANSISTOR	1	
Q3902		MSB709	TRANSISTOR	1	
Q3903		MSD601	TRANSISTOR	1	
Q3904		MSB709	TRANSISTOR	1	
QR3901		MUN2212	TRANSISTOR-RESISTOR	1	
QR3902		UN2216	TRANSISTOR-RESISTOR	1	
QR3903		MUN2111	TRANSISTOR-RESISTOR	1	
QR3904		UN4113	TRANSISTOR-RESISTOR	1	
R3901,02		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3903		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3904		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3905		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3906		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3907		ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3908		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3909		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3910		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3911		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3912		ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3913		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3916		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3917		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3918		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3921		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3922		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3923,24		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R3925,26		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	2	
R3927		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R3928		ERDS2TJ223	C.RESISTOR 1/4W 22K	1	
R4901		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4902		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R4903,04		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	2	
R4909		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4910		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4911		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R4920		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4921		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4924		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4926		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4928		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4931		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4933		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4935		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4939		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
SW3901		ESD172311	SWITCH	1	
			MISCELLANEOUS		
		XTV3+8GFZ	SCREW	4	FOR 21PIN SKIRT JACK
	■	VEP03B23L	INPUT/OUTPUT PACK C.B.A.		[SUPPLIED FROM MBV]
					(RTL)NV-SD400EI

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3901		ECUM1H104ZFN	E.CAPACITOR CH 50V 0.1U	1	
C3902		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3903		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3904		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3905,06		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3909		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3910		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3913		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3914		ECEA0JKA331	E.CAPACITOR 6.3V 330U	1	
C3915		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4903-08		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	6	
C4911,12		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
D3901		MA4056M	DIODE	1	
D3902		1SS254	DIODE	1	
D3903		MA151K	DIODE	1	
D3907		MA4056M	DIODE	1	
IC3901		MC14053BF	IC	1	
IC3902		MC14052BF	IC	1	
IC3903		MC14051BF	IC	1	
IC3904		BU12101-02	IC	1	[SUPPLIED FROM MBV]
IC4901		MC14052BF	IC	1	
IC4903		NJM4558M	IC	1	
IC4904		MC14052BF	IC	1	
JK3901,02		VJS1470	21PIN SKIRT JACK	2	
JK3903		VJH0791	I/O JACK PLATE	1	[SUPPLIED FROM MBV]
K3902		ERJ6GMZOROO	M.RESITOR CH 1/10W 0	1	
K4906		ERJ6GMZOROO	M.RESITOR CH 1/10W 0	1	
K4908		ERJ6GMZOROO	M.RESITOR CH 1/10W 0	1	
K4912		ERJ6GMZOROO	M.RESITOR CH 1/10W 0	1	
L3901		VLQ0188J101	COIL 100UH	1	
L3902		VLQ0599J101	COIL 100UH	1	
PS3901		VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS3902		VJS3042B018W	CONNECTOR (FEMALE) 18P	1	
Q3901		MSD601	TRANSISTOR	1	
Q3902		MSB709	TRANSISTOR	1	
Q3903		MSD601	TRANSISTOR	1	
Q3904		MSB709	TRANSISTOR	1	
QR3901		MUN2212	TRANSISTOR-RESISTOR	1	
QR3902		UN2216	TRANSISTOR-RESISTOR	1	
QR3903		MUN2111	TRANSISTOR-RESISTOR	1	
R3901,02		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3903		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3904		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3905		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3906		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3907		ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3908		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R3909		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3910		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3911		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	
R3912		ERJ6GEYG680	M.RESISTOR CH 1/10W 68	1	
R3913		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R3916		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3917		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R3918		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R3921		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3922		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3923,24		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R3925,26		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	2	
R3927		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R4901		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4902		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R4903,04		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	2	
R4909		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4910		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4911		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4920		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4921		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4924		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4926		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4928		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R4931		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4933		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4935		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4939		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
SW3901		ESD172311	SWITCH	1	
			MISCELLANEOUS		
		XTV3+8GFZ	SCREW	4	FOR 21PIN SKIRT JACK
	■	VEP04469E	MOTOR DRIVE C.B.A.		[SUPPLIED FROM MBV]
					(RTL)
C2501,02		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	2	
C2503		ECA1EM470	E.CAPACITOR 25V 47U	1	
C2504		ECEA1HKNR22	E.CAPACITOR 50V 0.22	1	
C2505		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2506		ECA1EM470	E.CAPACITOR 25V 47U	1	
C2507,08		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	2	
C2509		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2510		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2511		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	1	
C2512		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2514-16		ECUM1E333KBN	C.CAPACITOR CH 25V 0.033U	3	
C2517		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2518		ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C2519		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2520		ECUX1C474ZFN	C.CAPACITOR CH 16V 0.47U	1	
C2521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2523		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	1	
C2525		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2527		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C2528-30		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	3	
C2532-34		ECEA1VKN4R7	E.CAPACITOR 35V 4.7U	3	
C2535		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	1	
C2536		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C2538		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2540		ECEA1HKAR47	E.CAPACITOR 50V 0.47	1	
C4712		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4713		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C4714		ECQP1332JZ	P.CAPACITOR 100V 3300P	1	
C4715		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4716		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C4717		ECUM1H821JCN	C.CAPACITOR CH 50V 820P	1	
D2501,02		MA185	DIODE	2	
D2504,05		MA700	DIODE	2	
D2506-10		1SS355	DIODE	5	
D4702		MA151K	DIODE	1	
IC2501		BA6871S	IC	1	
IC2502		AN3814K	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
K4708		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
K4710		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
L4702		ELESE471KA	COIL	1	
L4707,08		VLP0150	INDUCTOR	2	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2004		VJP1237T	CONNECTOR (MALE) 10P	1	
P2501		VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P4002		VJS2329	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE) 3P	1	
PS2501		VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
PS4701		VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
Q4701		2SD602A-R	TRANSISTOR	1	
Q4703		2SB1320A-R	TRANSISTOR	1	
QR4703		MUN2214	TRANSISTOR-RESISTOR	1	
R2501		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2502		ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R2503,04		ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R2505		ERDS1TJ561	C.RESISTOR 1/2W 560	1	
R2506		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2507		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2508		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2509		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2510		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2511		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2512		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2513,14		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2515		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2516		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2517		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2518		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2519		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2520		ERX12SJR47	C.RESISTOR 1/4W 0.47	1	
R2521,22		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R2523		ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1	
R2524-26		ERDS2TJ150	C.RESISTOR 1/4W 15	3	
R2527		ERDS2FJ1R5	C.RESISTOR 1/4W 1.5	1	
R2528		ERDS2FJ1R2	C.RESISTOR 1/4W 1.2	1	
R2529		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R2530		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2531		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2532		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R2533		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2534		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4710		ERJ6GMYJ432	M.RESISTOR CH 1/10W 4.3K	1	
R4715		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4722		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4723		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4735		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
T4701		EIQ7QF014Q	TRANSFOMMER	1	
VR2006		EVNDCAA03B15	V.RESISTOR	1	
VR2011		EVNDCAA03B15	V.RESISTOR	1	
VR4001		EVNDCAA03B15	V.RESISTOR	1	
			MISCELLANEOUS		
		VEE9091	WIRE CABLE	1	(P2003-POWER TR.)
		VEE9112	WIRE CABLE	1	(P4003-ERASE HEAD)
		VWJ0868	FLAT CARD CABLE	1	(P2501-CAPSTAN)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEE9192	WIRE CABLE	1	[SUPPLIED FROM MBV]
					(P2004-CYLINDER)
	■	VEP05182GPE	HEAD AMP PACK C.B.A.		[SUPPLIED FROM MBV]
					(RTL)
C503		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C505		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C508		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C509		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C512		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C514		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C515,16		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C517		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C518		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C519		ECUX1C105ZFM	E.CAPACITOR CH 16V 1U	1	
C520,21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.1U	2	
C528		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C529		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C530		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C533		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C534,35		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	2	
C536,37		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C540		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	1	
C541		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C542,43		ECUM1H223ZFN	C.CAPACITOR CH 50V 0.022U	2	
D501-04		1SS254	DIODE	4	
IC501		TEA5705	IC	1	[SUPPLIED FROM MBV]
K501		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K502		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K506		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
K510		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
L501		ELESN820KA	COIL H	1	
L506		ELESE151K	COIL 150UH	1	
L508		ELESE330KA	COIL 33UH	1	
L509		ELESE270KA	COIL 27UH	1	
L510		ELESE101KA	COIL 100UH	1	
P501		VJS1684	CONNECTOR (FEMALE)	1	
PS002		VJS3069	CONNECTOR (FEMALE)	1	
Q502		2SB709	TRANSISTOR	1	
Q503		2SC2295	TRANSISTOR	1	
Q504		2SB709	TRANSISTOR	1	
QR502		UN2212	TRANSISTOR-RESISTOR	1	
R505		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R507		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R509		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R510		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R512		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R513		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R514,15		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	2	
R516		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R517		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R518		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R519		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R520		ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1	
R521		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R522		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R523,24		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	2	
R525		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R526		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R527		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R528		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R529		ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R530,31		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R533		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R534		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R535		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R536		ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R537		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R539,40		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	2	
R541		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
VR501		EVNDCAA03B23	V.RESISTOR	1	
VR502		EVNDCAA03B13	V.RESISTOR	1	
			MISCELLANEOUS		
		VSC3768	SHIELD COVER (TOP)	1	
		VSC3769	SHIELD COVER (MAIN)	1	
		VSC3770	SHIELD COVER (BOTTOM)	1	
	■	VEP07817G	TIMER C.B.A.		[SUPPLIED FROM MBV]
					(RTL)NV-SD400EG
C7501		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7502		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7506		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7507		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7508		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7509		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7512		ECRHA010A54R	V.CAPACITOR	1	
C7513		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7514		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7515		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7516		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C7517		VCE0073	E.CAPACITOR	1	
C7518-21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C7523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7526		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
D7501,02		MA73	DIODE	2	
D7503,04		1SS254	DIODE	2	
D7505		MA73	DIODE	1	
D7506-08		1SS254	DIODE	3	
D7509		LN81RCPH	LED	1	
D7512,13		1SS254	DIODE	2	
D7515		1SS254	DIODE	1	
D7518		1SS254	DIODE	1	
D7527		1SS254	DIODE	1	
D7531		1SS254	DIODE	1	
D7532		MA4220	DIODE	1	
D7533		1SS254	DIODE	1	
D7540		1SS254	DIODE	1	
D7541		HLMK-D315	DIODE	1	[SUPPLIED FROM MBV]
D7542		1SS254	DIODE	1	
D7546,47		1SS254	DIODE	2	
DP7501		VSL0325	DISPLAY TUBE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC7501		M37507V4BW	IC	1	[SUPPLIED FROM MBV]
IC7503		RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504		PST7023	IC	1	
IC7505		S80743AL-Z	IC	1	
K7502		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7503		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7509		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7514		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
P7501		VJS3537B032G	CONNECTOR (FEMALE) 32P	1	
Q7501		2SD1991A	TRANSISTOR	1	
QR7501		MUN2112	TRANSISTOR-RESISTOR	1	
QR7503		MUN2211	TRANSISTOR-RESISTOR	1	
QR7504		MUN2111	TRANSISTOR-RESISTOR	1	
R7501-03		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7505-10		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6	
R7512		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7514		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7515		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R7516		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7519		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7520		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7521		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7534,35		ERJ6GMYJ132	M.RESISTOR CH 1/10W 1.3K	2	
R7536		ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R7537		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7539		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7540		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7542		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7544,45		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7546		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7551,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7553		ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1	
R7554		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7556		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7557		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7558		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
SW7502-04		EVQ11409K	SWITCH	3	
SW7506-10		EVQ11409K	SWITCH	5	
SW7512-15		EVQ11409K	SWITCH	4	
X7501		VSX0608	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF1122	FIP HOLDER	1	
		VMD1047	LED SPACER	2	
		VMD2247	IR RECEIVER HOLDER	1	
	■	VEP07817N	TIMER C.B.A.		[SUPPLIED FROM MBV]
					(RTL)NV-SD400EI
C7501		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7502		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7506		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7507		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7508		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7509		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7512		ECRHA010A54R	V.CAPACITOR	1	
C7513		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7514		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7515		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7516		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C7517		VCE0073	E.CAPACITOR	1	
C7518-21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C7523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7526		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
D7501,02		MA73	DIODE	2	
D7503,04		1SS254	DIODE	2	
D7505		MA73	DIODE	1	
D7506-08		1SS254	DIODE	3	
D7509		LN81RCPH	LED	1	
D7512,13		1SS254	DIODE	2	
D7515		1SS254	DIODE	1	
D7518		1SS254	DIODE	1	
D7521		1SS254	DIODE	1	
D7523		1SS254	DIODE	1	
D7527		1SS254	DIODE	1	
D7531		1SS254	DIODE	1	
D7532		MA4220	DIODE	1	
D7533		1SS254	DIODE	1	
D7540		1SS254	DIODE	1	
D7541		HLMK-D315	DIODE	1	[SUPPLIED FROM MBV]
D7542		1SS254	DIODE	1	
D7546,47		1SS254	DIODE	2	
DP7501		VSL0325	DISPLAY TUBE	1	
IC7501		M37507V4BW	IC	1	[SUPPLIED FROM MBV]
IC7503		RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504		PST7023	IC	1	
IC7505		S80743AL-Z	IC	1	
K7502		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7503		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7509		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7514		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
P7501		VJS3537B032G	CONNECTOR (FEMALE) 32P	1	
Q7501		2SD1991A	TRANSISTOR	1	
QR7501		MUN2112	TRANSISTOR-RESISTOR	1	
QR7503		MUN2211	TRANSISTOR-RESISTOR	1	
QR7504		MUN2111	TRANSISTOR-RESISTOR	1	
R7501-03		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7505-10		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6	
R7512		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7514		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7515		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R7516		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7519		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7520		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7521		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7534,35		ERJ6GMYJ132	M.RESISTOR CH 1/10W 1.3K	2	
R7536		ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7537		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7539		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7540		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7542		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7544,45		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7546		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7551,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7553		ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1	
R7554		ERDS2TJ221	C.RESISTOR 1/2W 220	1	
R7556		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7557		ERDS2TJ221	C.RESISTOR 1/2W 220	1	
R7558		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
SW7502-04		EVQ11409K	SWITCH	3	
SW7506-10		EVQ11409K	SWITCH	5	
SW7512-15		EVQ11409K	SWITCH	4	
X7501		VSX0608	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF1122	FIP HOLDER	1	
		VMD1047	LED SPACER	2	
		VMD2247	IR RECEIVER HOLDER	1	
	■	VEP07817M	TIMER C.B.A.		[SUPPLIED FROM MBV]
					(RTL)NV-SD400B/BI
C7501		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7502		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504,05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7506		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C7507		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C7508		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7509		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7510		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7511		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7512		ECRHA010A54R	V.CAPACITOR	1	
C7513		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7514		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7515		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7516		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C7517		VCE0073	E.CAPACITOR	1	
C7518-21		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C7523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7526		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
D7501,02		MA73	DIODE	2	
D7503,04		1SS254	DIODE	2	
D7505		MA73	DIODE	1	
D7506-08		1SS254	DIODE	3	
D7509		LN81RCPH	LED	1	
D7512,13		1SS254	DIODE	2	
D7515		1SS254	DIODE	1	
D7518		1SS254	DIODE	1	
D7521		1SS254	DIODE	1	
D7527		1SS254	DIODE	1	
D7531		1SS254	DIODE	1	
D7532		MA4220	DIODE	1	
D7533		1SS254	DIODE	1	
D7540		1SS254	DIODE	1	
D7541		HLMK-D315	DIODE	1	[SUPPLIED FROM MBV]
D7542		1SS254	DIODE	1	
D7546,47		1SS254	DIODE	2	
DP7501		VSL0325	DISPLAY TUBE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC7501		M37507V4BW	IC	1	[SUPPLIED FROM MBV]
IC7503		RPM675CBRX10	IR RECEIVER UNIT	1	
IC7504		PST7023	IC	1	
IC7505		S80743AL-Z	IC	1	
K7502		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7503		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7509		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
K7514		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
P7501		VJS3537B032G	CONNECTOR (FEMALE) 32P	1	
Q7501		2SD1991A	TRANSISTOR	1	
QR7501		MUN2112	TRANSISTOR-RESISTOR	1	
QR7503		MUN2211	TRANSISTOR-RESISTOR	1	
QR7504		MUN2111	TRANSISTOR-RESISTOR	1	
R7501-03		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7505-10		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6	
R7512		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7514		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7515		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
R7516		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7518		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7519		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7520		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7521		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7534,35		ERJ6GMYJ132	M.RESISTOR CH 1/10W 1.3K	2	
R7536		ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R7537		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	1	
R7539		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7540		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7542		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7544,45		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7546		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7549		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R7551,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R7553		ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1	
R7554		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7556		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7557		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R7558		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
SW7502-04		EVQ11409K	SWITCH	3	
SW7506-10		EVQ11409K	SWITCH	5	
SW7512-15		EVQ11409K	SWITCH	4	
X7501		VSX0608	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF1122	FIP HOLDER	1	
		VMD1047	LED SPACER	2	
		VMD2247	IR RECEIVER HOLDER	1	
	■	VEP00U88A	MAIN INTERFACE C.B.A.		(RTL)
PS1501		VJS3042B003W	CONNECTOR (FEMALE) 3P	1	
PS6005		VJS3042B003W	CONNECTOR (FEMALE) 3P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP00U71A	S-TAB C.B.A.		(RTL)
PP1501		VJP3042A003W	CONNECTOR (MALE) 3P	1	
Q1501		PN205L-NC.VT	TRANSISTOR	1	
SW1501		VES0695	SAFETY TAB SWITCH	1	
			MISCELLANEOUS		
		VMD1927	PHOTO TR. HOLDER	1	FOR Q1501
	■	-----------	MOTOR C.B.A.		
			MISCELLANEOUS		
		VJP3316B002	CONNECTOR (FEMALE) 2P	1	

INTERNAL REFERENCE CODES

NOTE: This chart is only for internal reference.
Do not order any parts according to these codes.

P. C. B.	FILM CODE
MAIN SYUGO	H0A000-0284B
LUMINANNCE & CHROMINANCE	H0A000-03B46
OSD	H0A000-06993
INPUT/OUTPUT	H0A000-03B23
TIMER SYUGO	H0A000-0285B
TV DEMODULATOR	H0A000-07801
MOTOR DRIVE	H0A001-04469
HEAD AMP	H0A000-05182
LOADING MOTOR	H0A000-00S75